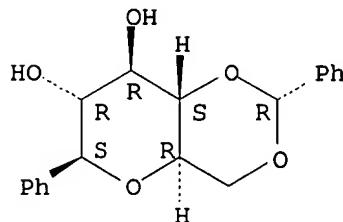


L6 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2006 ACS on STN
RN 511274-47-8 REGISTRY
CN D-Glucitol, 1,5-anhydro-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)-
(9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C19 H20 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); RACT
(Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: PREP (Preparation); RACT (Reactant or reagent)

Absolute stereochemistry. Rotation (+).



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> e SAS b/in
'IN' IS NOT A VALID EXPAND FIELD CODE FOR FILE 'RDISCLOSURE'
E1 2 SAS ADRIAN PIETER/IN
E2 1 SAS ARNOUD GERARD NL 5461 KL VEGHEL NL/IN
E3 0 --> SAS B/IN
E4 45 SAS BENEDIKT/IN
E5 1 SAS BENEDIKT B 2300 TURNHOUT BE/IN
E6 1 SAS BENEDIKT J/IN
E7 1 SAS BENHAMIN/IN
E8 2 SAS BENIAMIN/IN
E9 4 SAS BENJAMIN/IN
E10 3 SAS ERZSEBET/IN
E11 1 SAS ERZSEBET H 4033 DEBRECEN HU/IN
E12 1 SAS G A J M T/IN

The indicated field code is not available for EXPAND in this file. To see a list of valid EXPAND field codes, enter HELP SFIELDS at an arrow prompt (=>).

=> s e4-e6
'IN' IS NOT A VALID FIELD CODE
L1 47 ("SAS BENEDIKT"/IN OR "SAS BENEDIKT B 2300 TURNHOUT BE"/IN OR
"SAS BENEDIKT J"/IN)

=> s l1 and DIARRHEA(s)VIRUSES
L2 5 L1 AND DIARRHEA(S) VIRUSES

=> d ibib 1-5

L2 ANSWER 1 OF 5 EPFULL COPYRIGHT 2006 EPO/FIZ KA on STN

ACCESSION NUMBER: 2003:139988 EPFULL
ENTRY DATE PUBLICATION: 20051102
UPDATE DATE PUBLICAT.: 20051102
DATA UPDATE DATE: 20051102
DATA UPDATE WEEK: 200544
TITLE (ENGLISH): BICYCLIC CARBOHYDRATE COMPOUNDS USEFUL IN THE TREATMENT OF INFECTIONS CAUSED BY FLAVIVIRIDAE SP., SUCH AS HEPATITIS C AND BOVINE VIRAL DIARRHEA VIRUSES
TITLE (FRENCH): COMPOSES DE CARBOHYDRATES BICYCLIQUES UTILISES DANS LE TRAITEMENT D'INFECTIONS PROVOQUEES PAR LES FLAVIVIRIDAE, TELS QUE LES VIRUS DE L'HEPATITE C ET LA DIARRHEE VIRALE BOVINE
TITLE (GERMAN): BIZYKLISCHE KOHLENHYDRATVERBINDUNGEN ZUR BEHANDLUNG VON DURCH FLAVIVIRIDAE SP., WIE ETWA HEPATITIS-C- UND BOVINE VIRUSDIARRHOE-VIREN AUSGELOESEN INFektIONEN
INVENTOR(S): SAS, Benedikt, Kwakkelstraat 71, 9190 Stekene, BE; VAN HEMEL, Johan, St-Theresiastraat 44, 2600 Antwerpen, BE; VANDENKERCKHOVE, Jan, Vosselotstraat 140, 3271 Zichem, BE; PEYS, Eric, Ossenberg 81, 2490 Balen, BE; VAN DER EYCKEN, Johan, c/o University of Ghent, Denderhoutemlaan 261, 9400 Ninove, BE; RUTTENS, Bart, c/o University of Ghent, Karderstraat 11, 9000 Gent, BE; BALAZARINI, Jan, c/o Rega Institute, Minderbroedersstraat 10, 3000 Leuven, BE; DECLERCQ, Erik, c/o Rega Institute, Minderbroedersstraat 10, 3000 Leuven, BE; NUYTS, Johan, c/o Rega Institute, Minderbroedersstraat 10, 3000 Leuven, BE
PATENT APPLICANT(S): Kemin Pharma Europe BVBA, 2100 Maury Street, Des Moines, IA 50309, US
PATENT APPL. NUMBER: 7118780
AGENT: Evans, Jacqueline Gail Victoria, et al, Greaves Brewster LLP Indigo House Cheddar Business Park Wedmore Road, Cheddar BS27 3EB, GB
AGENT NUMBER: 73005
LANGUAGE OF FILING: English
LANGUAGE OF PUBL.: English

LANGUAGE OF PROCEDURE: English
LANGUAGE OF TITLE: German; English; French
DOCUMENT TYPE: Patent
PATENT INFO TYPE: EPA2 Application published without search report
PATENT INFORMATION:
PATENT INFORMATION:

NUMBER	KIND	DATE
NUMBER	KIND	DATE
EP 1590357	A2	20051102
WO 2004062575		20040729
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI LU MC NL PT RO SE SI SK TR		
AL LT LV MK		
EP 2003-810090	A	20031222
WO 2003-US41720	A	20031222
US 2003-438475P	P	20030107

DESIGNATED STATES: AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LI
LU MC NL PT RO SE SI SK TR
EXTENSION STATES: AL LT LV MK
APPLICATION INFO.: EP 2003-810090 A 20031222
WO 2003-US41720 A 20031222
PRIORITY INFO.: US 2003-438475P P 20030107

L2 ANSWER 2 OF 5 PCTFULL COPYRIGHT 2006 Univentio on STN
ACCESSION NUMBER: 2004062575 PCTFULL ED 20040803 EW 200431
TITLE (ENGLISH): BICYCLIC CARBOHYDRATE COMPOUNDS USEFUL IN THE TREATMENT
OF INFECTIONS CAUSED BY FLAVIVIRIDAE SP., SUCH AS
HEPATITIS C AND BOVINE VIRAL **DIARRHEA**
VIRUSES
TITLE (FRENCH): COMPOSES DE CARBOHYDRATES BICYCLIQUES UTILISES DANS LE
TRAITEMENT D'INFECTIONS PROVOQUEES PAR LES
FLAVIVIRIDAE, TELS QUE LES VIRUS DE L'HEPATITE C ET LA
DIARRHEE VIRALE BOVINE
INVENTOR(S): **SAS, Benedikt, Kwakkelstraat 71, B-B-9190 Stekene, BE [BE, BE];**
VAN HEMEL, Johan, St-Theresiastraat 44, B-B-2600
Antwerpen, BE [BE, BE];
VANDENKERCKHOVE, Jan, Vosselotstraat 140, B-B-3271
Zichem, BE [BE, BE];
PEYS, Eric, Ossenberg 81, B-B-2490 Balen, BE [BE, BE];
VAN DER EYCKEN, Johan, University of Ghent,
Denderhoufemlaan 261, B-B-9400 Ninove, BE [BE, BE];
RUTTENS, Bart, University of Ghent, Karperstraat 11,
B-B-9000 Gent, BE [BE, BE];
BALZARINI, Jan, Rega Institute, Minderbroedersstraat
10, B-B-3000 Leuven, BE [BE, BE];
DECLERCQ, Erik, Rega Institute, Minderbroedersstraat
10, B-B-3000 Leuven, BE [BE, BE];
NUYTS, Johan, Rega Institute, Minderbroedersstraat 10,
B-B-3000 Leuven, BE [BE, BE]
PATENT ASSIGNEE(S): KEMIN PHARMA L.C., 2100 Maury Street, Des Moines, IA
50309, US [US, US], for all designates States except
US;
SAS, Benedikt, Kwakkelstraat 71, B-B-9190 Stekene, BE [BE, BE], for US only;
VAN HEMEL, Johan, St-Theresiastraat 44, B-B-2600
Antwerpen, BE [BE, BE], for US only;
VANDENKERCKHOVE, Jan, Vosselotstraat 140, B-B-3271
Zichem, BE [BE, BE], for US only;
PEYS, Eric, Ossenberg 81, B-B-2490 Balen, BE [BE, BE],
for US only;
VAN DER EYCKEN, Johan, University of Ghent,
Denderhoufemlaan 261, B-B-9400 Ninove, BE [BE, BE], for
US only;
RUTTENS, Bart, University of Ghent, Karperstraat 11,
B-B-9000 Gent, BE [BE, BE], for US only;
BALZARINI, Jan, Rega Institute, Minderbroedersstraat
10, B-B-3000 Leuven, BE [BE, BE], for US only;
DECLERCQ, Erik, Rega Institute, Minderbroedersstraat
10, B-B-3000 Leuven, BE [BE, BE], for US only;
NUYTS, Johan, Rega Institute, Minderbroedersstraat 10,
B-B-3000 Leuven, BE [BE, BE], for US only

AGENT:

HERINK, Kent\$, Davis, Brown, Koehn, Shors & Roberts,
P.C., The Financial Center, 666 Walnut Street, Suite
2500, Des Moines, IA 50309\$, US

LANGUAGE OF FILING:

English

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 2004062575	A2	20040729
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DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
CU CZ DE DK DM DZ EC EE EG ES FI GB GD GE GH GM HR HU
ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC
SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG US UZ VC VN
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GH GM KE LS MW MZ SD SL SZ TZ UG ZM ZW

AM AZ BY KG KZ MD RU TJ TM

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU
MC NL PT RO SE SI SK TR

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2003-US41720 A 20031222

PRIORITY INFO.:

US 2003-60/438,475 20030107

L2 ANSWER 3 OF 5

ACCESSION NUMBER:

TITLE (ENGLISH):

PCTFULL COPYRIGHT 2006 Univentio on STN

2004041176 PCTFULL ED 20040527 EW 200421

THE USE OF ENDOPEROXIDES FOR THE TREATMENT OF
INFECTIONS CAUSED BY FLAVIVIRIDAE, INCLUDING HEPATITIS
C, BOVINE VIRAL DIARRHEA AND CLASSICAL SWINE FEVER
VIRUS

TITLE (FRENCH):

UTILISATION D'ENDOPEROXYDES POUR LE TRAITEMENT
D'INFECTIONS CAUSEES PAR UN FLAVIVIRIDAE, TELLES QUE
L'HEPATITE C, LA DIARRHEE VIRALE BOVINE ET LE VIRUS DE
LA PESTE PORCINE CLASSIQUE

INVENTOR(S):

VANDENKERCKHOVE, Jan, Vosselotstraat 140, B-3271

Zichem, BE;

SAS, Benedikt, Kwakkelstraat 71, B-9190 Stekene,
BE;

PEYS, Eric, Ossenberg 81, B-2490 Balen, BE;

VAN HEMEL, Johan, St-Theresiastraat 44, B-2600
Antwerpen, BE

PATENT ASSIGNEE(S):

KEMIN PHARMA EUROPE B.V.B.A., Kristi Kafka, 2100 Maury
Street, Box 70, Des Moines, IA 50301, US [US, BE]
HERINK, Kent\$, Davis, Brown, Koehn, Shors & Roberts,
P.C., The Financial Center, 666 Walnut Street, Suite
2500, Des Moines, IA 50309\$, US

AGENT:

LANGUAGE OF FILING:

English

LANGUAGE OF PUBL.:

English

DOCUMENT TYPE:

Patent

PATENT INFORMATION:

NUMBER	KIND	DATE
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WO 2004041176	A2	20040521
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DESIGNATED STATES

W:

AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA CH CN CO CR
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ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA
MD MG MK MN MW MX MZ NI NO NZ OM PG PH PL PT RO RU SC
SD SE SG SK SL SY TJ TM TN TR TT TZ UA UG UZ VC VN YU
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AM AZ BY KG KZ MD RU TJ TM

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IT LU
MC NL PT RO SE SI SK TR

BF BJ CF CG CI CM GA GN GQ GW ML MR NE SN TD TG

APPLICATION INFO.:

WO 2003-US34431 A 20031029

PRIORITY INFO.:

US 2002-60/422,683 20021031

L2 ANSWER 4 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2005:69506 USPATFULL
TITLE: Use of endoperoxides for the treatment of infections caused by flaviviridae, including hepatitis C, bovine viral diarrhea and classical swine fever virus
INVENTOR(S): Sas, Benedikt, Stekene, BELGIUM
hemel, Johan Van, Antwerpen, BELGIUM
Vandenkerckhove, Jan, Zichem, BELGIUM
Peys, Eric, Balen, BELGIUM

NUMBER	KIND	DATE
-----	-----	-----
US 2005059647	A1	20050317
US 2003-664008	A1	20030916 (10)

PATENT INFORMATION: US 2005059647 A1 20050317
APPLICATION INFO.: US 2003-664008 A1 20030916 (10)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: DAVIS, BROWN, KOEHN, SHORS & ROBERTS, P.C., THE FINANCIAL CENTER, 666 WALNUT STREET, SUITE 2500, DES MOINES, IA, 50309-3993

NUMBER OF CLAIMS: 11

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 1 Drawing Page(s)

LINE COUNT: 355

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L2 ANSWER 5 OF 5 USPATFULL on STN

ACCESSION NUMBER: 2004:268280 USPATFULL
TITLE: Bicyclic carbohydrate compounds useful in the treatment of infections caused by Flaviviridae sp., such as hepatitis C and bovine viral **diarrhea viruses**
INVENTOR(S): Sas, Benedikt, Stekene, BELGIUM
Hemel, Johan Van, Antwerpen, BELGIUM
Vandenkerckhove, Jan, Zichem, BELGIUM
Peys, Eric, Balen, BELGIUM
Van der Eycken, Johan, Ninove, BELGIUM
Ruttens, Bart, Gent, BELGIUM
Balzarini, Jan, Heverlee, BELGIUM
Clercq, Eric De, Bierbeek, BELGIUM
Neyts, Johan, Kessel, BELGIUM

NUMBER	KIND	DATE
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US 2004209823	A1	20041021
US 2003-743111	A1	20031222 (10)

NUMBER	DATE
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PRIORITY INFORMATION: US 2003-438475P 20030107 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: DAVIS, BROWN, KOEHN, SHORS & ROBERTS, P.C., THE FINANCIAL CENTER, 666 WALNUT STREET, SUITE 2500, DES MOINES, IA, 50309-3993

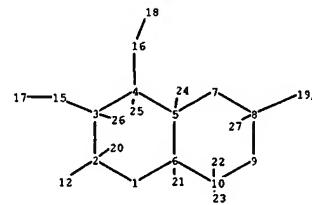
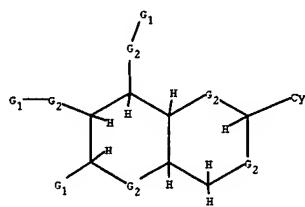
NUMBER OF CLAIMS: 7

EXEMPLARY CLAIM: 1

NUMBER OF DRAWINGS: 3 Drawing Page(s)

LINE COUNT: 741

CAS INDEXING IS AVAILABLE FOR THIS PATENT.



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ring nodes :
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chain bonds :
  2-12 2-20 3-15 3-26 4-16 4-25 5-24 6-21 8-19 8-27 10-22 10-23 15-17 16-18
ring bonds :
  1-2 1-6 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10
exact/norm bonds :
  1-2 1-6 2-3 2-12 2-20 3-4 3-15 3-26 4-5 4-16 4-25 5-6 5-7 5-24 6-10 6-21
  7-8 8-9 8-19 8-27 9-10 10-22 10-23 15-17 16-18

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G1:Cy, Ak

G2; O, S, N

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 12:CLASS
15:Atom 16:Atom 17:CLASS 18:CLASS 19:Atom 20:CLASS 21:CLASS 22:CLASS 23:CLASS
24:CLASS 25:CLASS 26:CLASS 27:CLASS

Connecting via Winsock to STN

10/743, 111

Welcome to STN International! Enter x:x

LOGINID: sssptal600txm

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 20:01:38 ON 06 JAN 2006

FILE 'REGISTRY' ENTERED AT 20:01:48 ON 06 JAN 2006
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 5 JAN 2006 HIGHEST RN 871301-42-7
DICTIONARY FILE UPDATES: 5 JAN 2006 HIGHEST RN 871301-42-7

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2005

Please note that search-term pricing does apply when conducting SmartSELECT searches.

*
* The CA roles and document type information have been removed from
* the IDE default display format and the ED field has been added,
* effective March 20, 2005. A new display format, IDERL, is now
* available and contains the CA role and document type information.
*

Structure search iteration limits have been increased. See HELP SLIMITS for details.

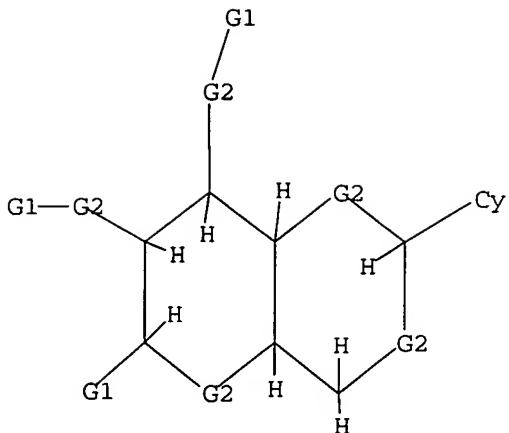
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/reqprops.html>

=>
Uploading C:\Program Files\Stnexp\Queries\10743111.str

L1 STRUCTURE UPLOADED

=> d 11
L1 HAS NO ANSWERS
L1 STR



G1 Cy,Ak

G2 O,S,N

Structure attributes must be viewed using STN Express query preparation.

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=> s 11 sam
SAMPLE SEARCH INITIATED 20:02:11 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 159758 TO ITERATE

1.3% PROCESSED      2000 ITERATIONS          0 ANSWERS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE  **INCOMPLETE**
                        BATCH   **INCOMPLETE**
PROJECTED ITERATIONS:    3171635 TO 3218685
PROJECTED ANSWERS:        0 TO      0
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L2 0 SEA SSS SAM L1

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=> s 11 full
FULL SEARCH INITIATED 20:02:21 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 3196989 TO ITERATE

28.1% PROCESSED     897154 ITERATIONS        38 ANSWERS
31.3% PROCESSED    1000000 ITERATIONS        38 ANSWERS
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SEARCH TIME: 00.00.21

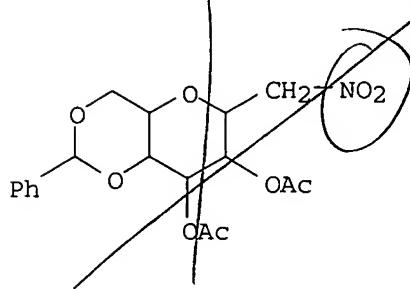
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L3 38 SEA SSS FUL L1

=> d 1-38 13

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L3  ANSWER 1 OF 38  REGISTRY  COPYRIGHT 2006 ACS on STN
RN  867219-64-5  REGISTRY
ED  Entered STN: 10 Nov 2005
CN  Heptitol, 5,7-benzylidene-2,6-anhydro-1-nitro-1-desoxy-, diacetate (4CI)
    (CA INDEX NAME)
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FS 3D CONCORD
 MF C18 H21 N 09
 SR CAS EARLY REGISTRATIONS
 LC STN Files: CA, CAPLUS

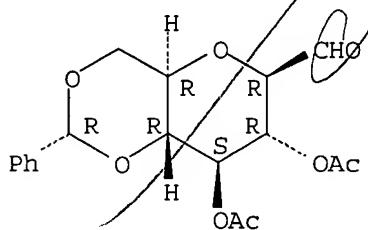


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 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 863023-80-7 REGISTRY
 ED Entered STN: 13 Sep 2005
 CN D-glycero-D-gulo-Heptose, 2,6-anhydro-5,7-O-[(R)-phenylmethylene]-, 3,4-diacetate (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C18 H20 O8
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

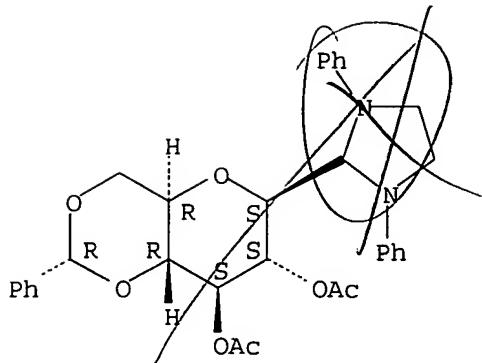


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 3 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 863023-79-4 REGISTRY
 ED Entered STN: 13 Sep 2005
 CN D-Glucitol, 1,5-anhydro-1-C-(1,3-diphenyl-2-imidazolidinyl)-4,6-O-[(R)-phenylmethylene]-, 2,3-diacetate, (1S)- (9CI) (CA INDEX NAME)
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 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

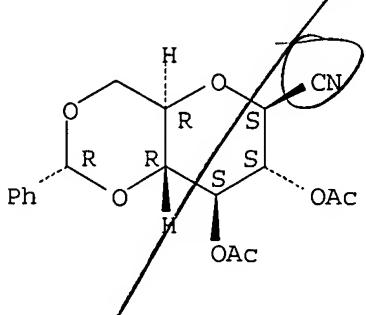


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 4 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 863023-77-2 REGISTRY
 ED Entered STN: 13 Sep 2005
 CN D-glycero-D-gulo-Heptononitrile, 2,6-anhydro-5,7-O-[(R)-phenylmethylene]-, 3,4-diacetate (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C18 H19 N O7
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (-).

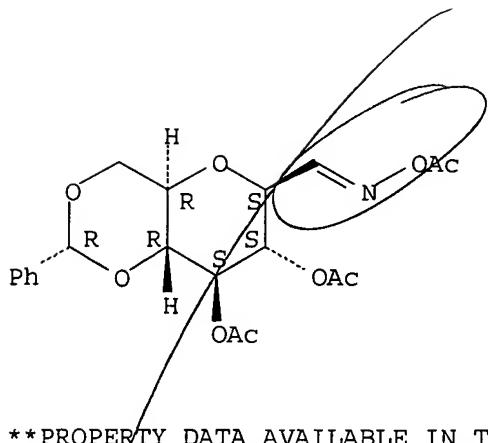


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 5 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 863023-76-1 REGISTRY
 ED Entered STN: 13 Sep 2005
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 FS STEREOSEARCH
 MF C20 H23 N O9
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.
 Double bond geometry unknown.

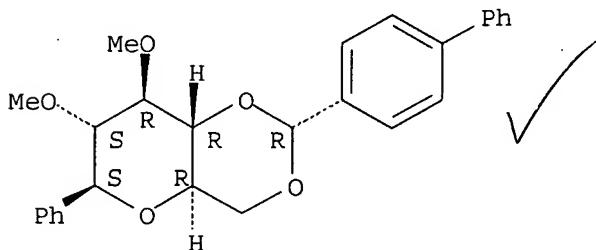


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 6 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 850313-81-4 REGISTRY
 ED Entered STN: 12 May 2005
 CN D-Glucitol, 1,5-anhydro-4,6-O-[(R)-[1,1'-biphenyl]-4-ylmethylene]-2,3-di-O-methyl-1-C-phenyl-, (1S)- (9CI) (CA INDEX NAME)
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 MF C27 H28 O5
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 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

Absolute stereochemistry. Rotation (-).

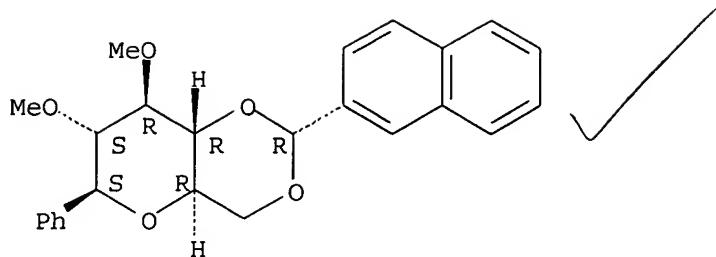


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 7 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 850313-79-0 REGISTRY
 ED Entered STN: 12 May 2005
 CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-4,6-O-[(R)-2-naphthalenylmethylene]-1-C-phenyl-, (1S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C25 H26 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

Absolute stereochemistry. Rotation (-).

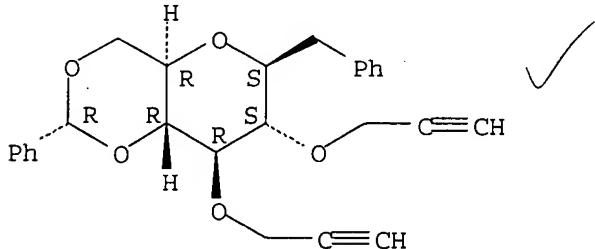


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 8 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 850313-77-8 REGISTRY
 ED Entered STN: 12 May 2005
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-1-phenyl-5,7-O-[(R)-phenylmethylene]-3,4-di-O-2-propynyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C26 H26 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

Absolute stereochemistry. Rotation (-).

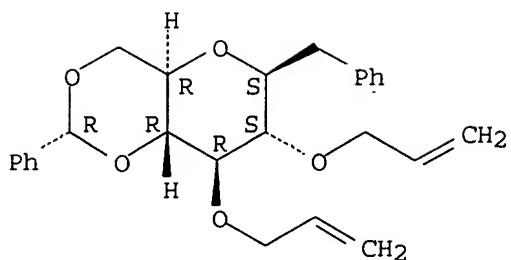


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 9 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 850313-76-7 REGISTRY
 ED Entered STN: 12 May 2005
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-1-phenyl-5,7-O-[(R)-phenylmethylene]-3,4-di-O-2-propenyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C26 H30 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

Absolute stereochemistry.

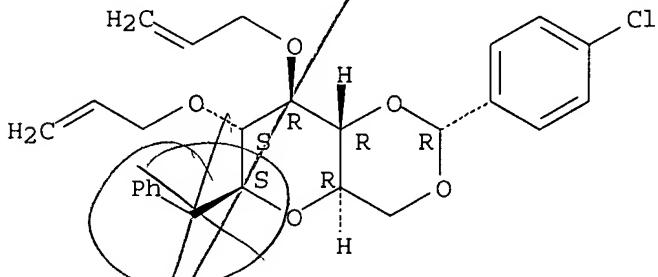


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 10 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 846061-34-5 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5,7-O-[(R)-(4-chlorophenyl)methylene]-1-deoxy-1-phenyl-3,4-di-O-2-propenyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C26 H29 Cl O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

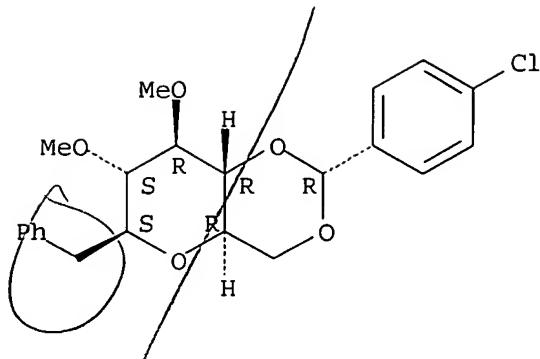


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 11 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 846061-33-4 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5,7-O-[(R)-(4-chlorophenyl)methylene]-1-deoxy-3,4-di-O-methyl-1-phenyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C22 H25 Cl O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry.

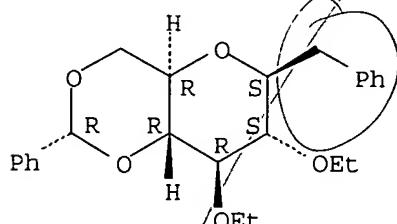


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 12 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 846061-32-3 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-3,4-di-O-ethyl-1-phenyl-5,7-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C24 H30 O5
 SR CA
 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

Absolute stereochemistry.

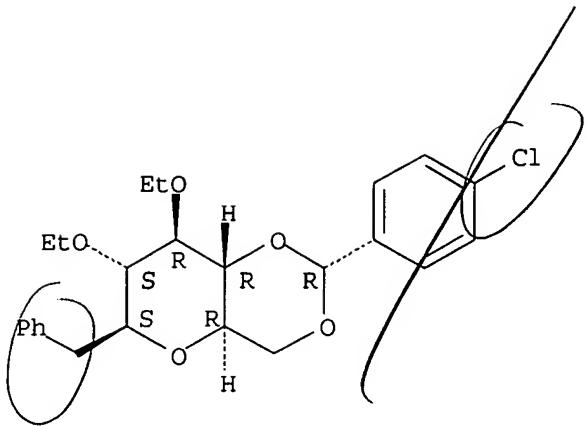


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
 2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 13 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 846061-31-2 REGISTRY
 ED Entered STN: 21 Mar 2005
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5,7-O-[(R)-(4-chlorophenyl)methylene]-1-deoxy-3,4-di-O-ethyl-1-phenyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C24 H29 Cl O5
 SR CA
 LC STN Files: CA, CAPLUS, USPATFULL

Absolute stereochemistry. Rotation (-).

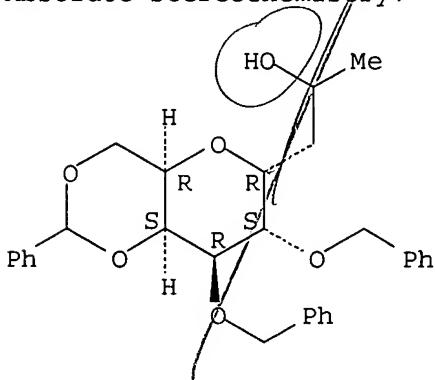


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 14 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 800394-09-6 REGISTRY
 ED Entered STN: 21 Dec 2004
 CN D-glycero-L-galacto-Nonitol, 2,6-anhydro-7,9-dideoxy-4,5-bis-O-(phenylmethyl)-1,3-O-(phenylmethylene)-, (8 ξ)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C30 H34 O6
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

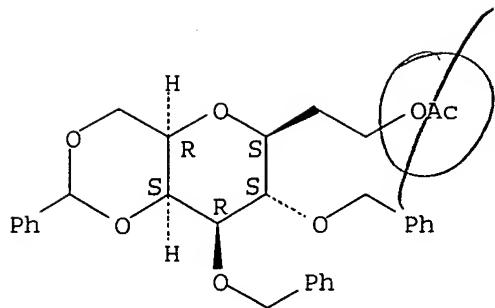


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 15 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 800393-91-3 REGISTRY
 ED Entered STN: 21 Dec 2004
 CN L-glycero-L-galacto-Octitol, 2,6-anhydro-7-deoxy-4,5-bis-O-(phenylmethyl)-1,3-O-(phenylmethylene)-, acetate (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C31 H34 O7
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

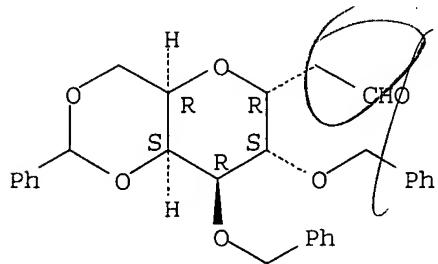


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 16 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 800393-89-9 REGISTRY
 ED Entered STN: 21 Dec 2004
 CN D-glycero-L-gluco-Octose, 3,7-anhydro-2-deoxy-4,5-bis-O-(phenylmethyl)-6,8-O-(phenylmethylen)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C29 H30 O6
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

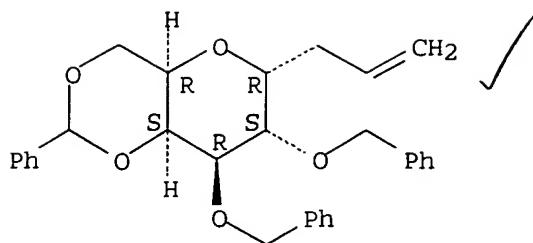


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 17 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 800393-84-4 REGISTRY
 ED Entered STN: 21 Dec 2004
 CN D-glycero-L-galacto-Non-8-enitol, 2,6-anhydro-7,8,9-trideoxy-4,5-bis-O-(phenylmethyl)-1,3-O-(phenylmethylen)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C30 H32 O5
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

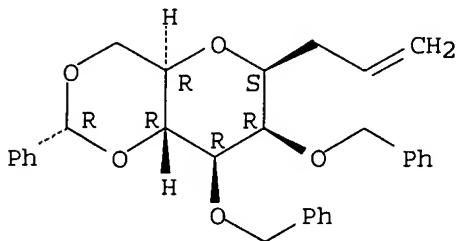


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 18 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 795306-04-6 REGISTRY
 ED Entered STN: 09 Dec 2004
 CN D-glycero-D-galacto-Non-1-enitol, 4,8-anhydro-1,2,3-trideoxy-5,6-bis-O-(phenylmethyl)-7,9-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C30 H32 O5
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

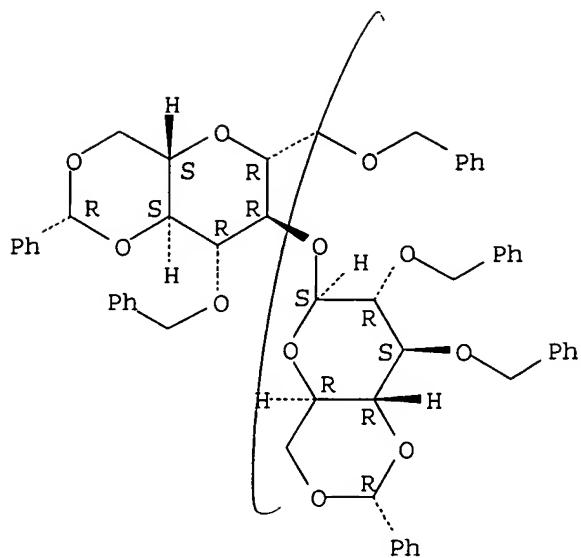


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 19 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 770727-53-2 REGISTRY
 ED Entered STN: 28 Oct 2004
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5-O- [2,3-bis-O- (phenylmethyl) -4,6-O- [(R)-phenylmethylene] - β -D-glucopyranosyl] -4,7-bis-O- (phenylmethyl) -1,3-O- [(R)-phenylmethylene]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C55 H56 O11
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).

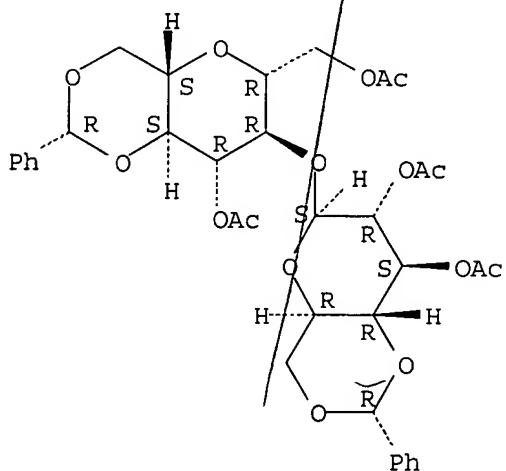


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 20 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 770727-51-0 REGISTRY
 ED Entered STN: 28 Oct 2004
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5-O-[2,3-di-O-acetyl-4,6-O-[(R)-phenylmethylene]-β-D-glucopyranosyl]-1,3-O-[(R)-phenylmethylene]-, diacetate (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C35 H40 O15
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry. Rotation (+).



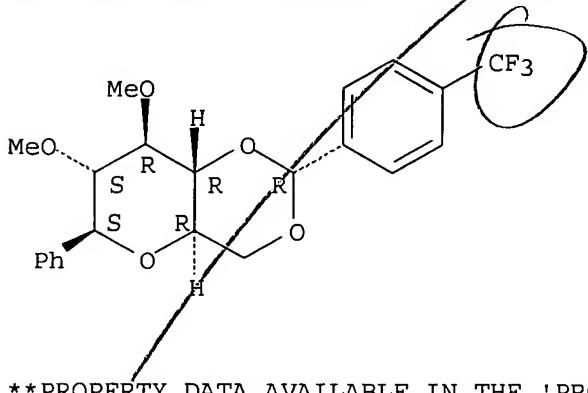
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 21 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 727416-80-0 REGISTRY

ED Entered STN: 16 Aug 2004
 CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-1-C-phenyl-4,6-O-[(R)-[4-(trifluoromethyl)phenyl]methylene]-, (1S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C22 H23 F3 O5
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

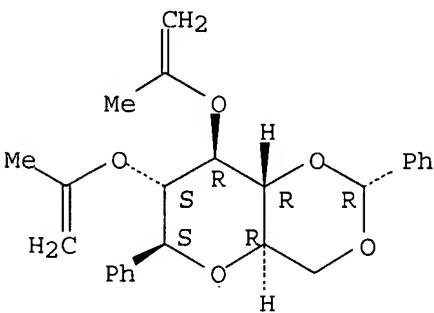


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 22 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 727415-96-5 REGISTRY
 ED Entered STN: 16 Aug 2004
 CN D-Glucitol, 1,5-anhydro-2,3-bis-O-(1-methylethyl)-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C25 H28 O5
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.



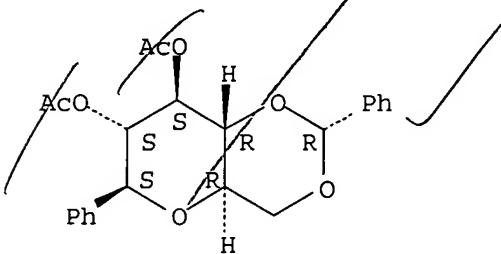
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 23 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 727415-94-3 REGISTRY
 ED Entered STN: 16 Aug 2004
 CN D-Glucitol, 1,5-anhydro-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, diacetate, (1S)- (9CI) (CA INDEX NAME)

FS STEREOSEARCH
MF C23 H24 O7
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

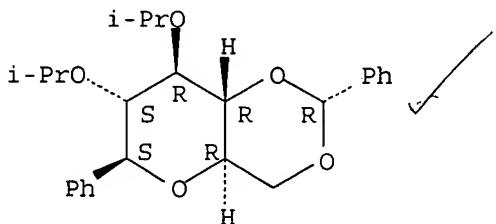


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 24 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
RN 727415-92-1 REGISTRY
ED Entered STN: 16 Aug 2004
CN D-Glucitol, 1,5-anhydro-2,3-bis-O-(1-methylethyl)-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C25 H32 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

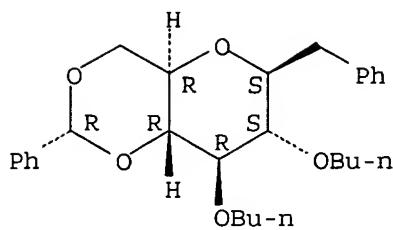


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 25 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
RN 727415-91-0 REGISTRY
ED Entered STN: 16 Aug 2004
CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-3,4-di-O-butyl-1-deoxy-1-phenyl-5,7-O-[(R)-phenylmethylene] - (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C28 H38 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

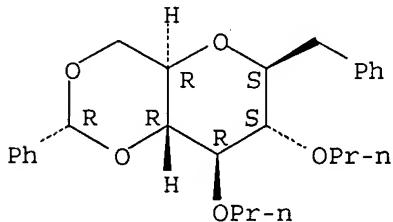


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 26 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 727415-90-9 REGISTRY
 ED Entered STN: 16 Aug 2004
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-1-phenyl-5,7-O-[(R)-phenylmethylene]-3,4-di-O-propyl- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C26 H34 O5
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry. Rotation (-).

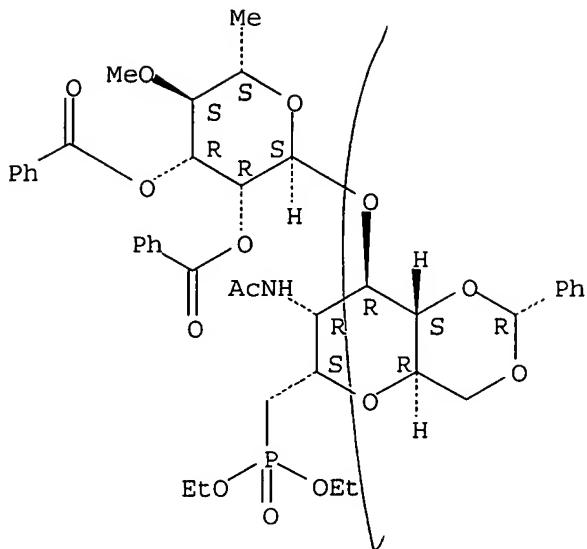


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 27 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 648431-84-9 REGISTRY
 ED Entered STN: 10 Feb 2004
 CN D-glycero-L-gulo-Heptitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-4-O-(2,3-di-O-benzoyl-6-deoxy-4-O-methyl-alpha-L-mannopyranosyl)-7-(diethoxyphosphinyl)-1,3-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C41 H50 N O14 P
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

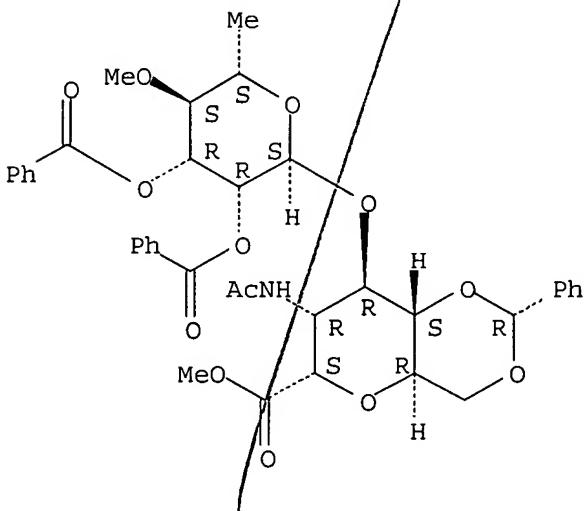


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 28 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 648431-79-2 REGISTRY
 ED Entered STN: 10 Feb 2004
 CN D-glycero-D-ido-Heptonic acid, 3-(acetylamino)-2,6-anhydro-3-deoxy-4-O-(2,3-di-O-benzoyl-6-deoxy-4-O-methyl-alpha-L-mannopyranosyl)-5,7-O-[(R)-phenylmethylene]-, methyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C38 H41 N O13
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

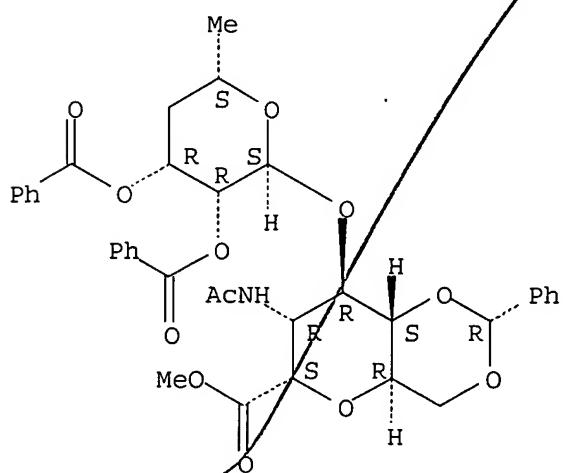


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 29 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 648431-78-1 REGISTRY
 ED Entered STN: 10 Feb 2004
 CN D-glycero-D-ido-Heptonic acid, 3-(acetylamino)-2,6-anhydro-3-deoxy-4-O-(2,3-di-O-benzoyl-4,6-dideoxy- α -L-lyxo-hexopyranosyl)-5,7-O-[(R)-phenylmethylene]-, methyl ester (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C37 H39 N O12
 SR CA
 LC STN Files: CA, CAPLUS

Absolute stereochemistry.

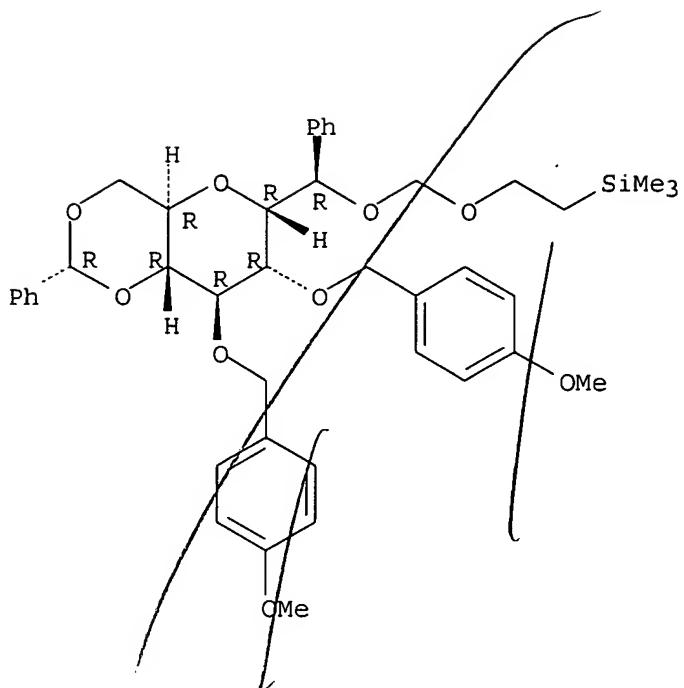


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 30 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 623148-59-4 REGISTRY
 ED Entered STN: 03 Dec 2003
 CN D-glycero-L-gulo-Heptitol, 2,6-anhydro-4,5-bis-O-[(4-methoxyphenyl)methyl]-7-O-[(2-(trimethylsilyl)ethoxy)methyl]-, (7R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C42 H52 O9 Si
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

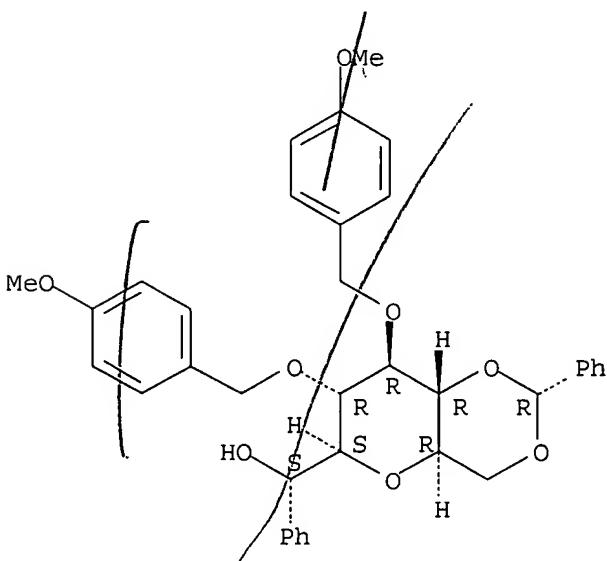


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 31 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 623148-58-3 REGISTRY
 ED Entered STN: 03 Dec 2003
 CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-3,4-bis-O-[(4-methoxyphenyl)methyl]-1-C-phenyl-5,7-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C36 H38 O8
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

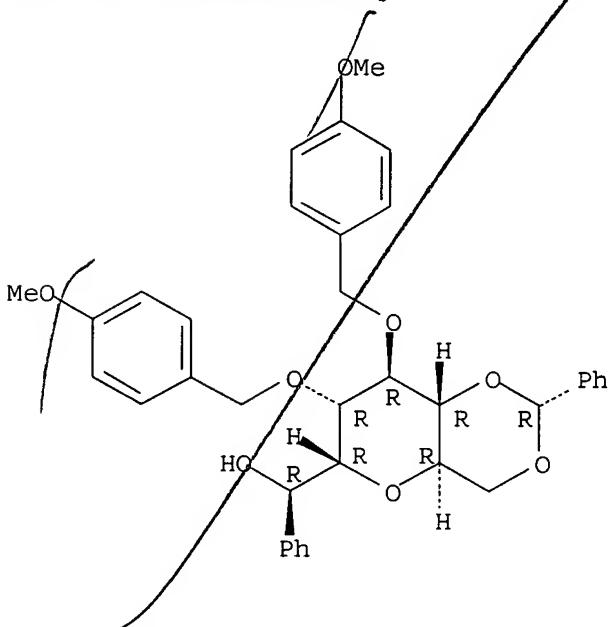


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 32 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 623148-57-2 REGISTRY
 ED Entered STN: 03 Dec 2003
 CN D-glycero-L-gulo-Heptitol, 2,6-anhydro-4,5-bis-O-[(4-methoxyphenyl)methyl]-7-C-phenyl-1,3-O-[(R)-phenylmethylene]-, (7R)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C36 H38 O8
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

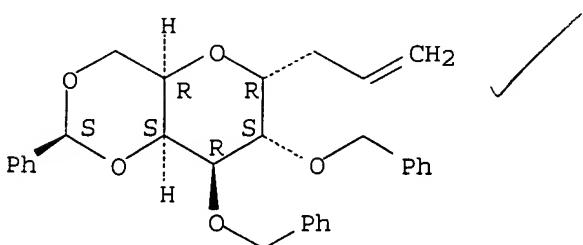


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 33 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 592532-99-5 REGISTRY
 ED Entered STN: 25 Sep 2003
 CN D-glycero-L-galacto-Non-8-enitol, 2,6-anhydro-7,8,9-trideoxy-4,5-bis-O-(phenylmethyl)-1,3-O-[(S)-phenylmethylene]- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C30 H32 O5
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT

Absolute stereochemistry.

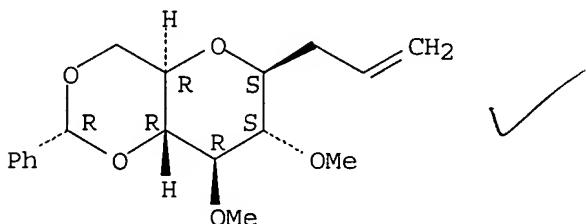


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 34 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
RN 511274-46-7 REGISTRY
ED Entered STN: 06 May 2003
CN D-glycero-D-gulo-Non-1-enitol, 4,8-anhydro-1,2,3-trideoxy-5,6-di-O-methyl-
7,9-O-[(R)-phenylmethylene] - (9CI) (CA INDEX NAME) .
FS STEREOSEARCH
MF C18 H24 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPATFULL

Absolute stereochemistry.

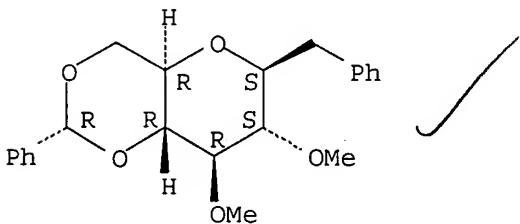


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 35 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
RN 511274-42-3 REGISTRY
ED Entered STN: 06 May 2003
CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-3,4-di-O-methyl-1-phenyl-
5,7-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)
FS STEREOSEARCH
MF C22 H26 O5
SR CA
LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

Absolute stereochemistry.



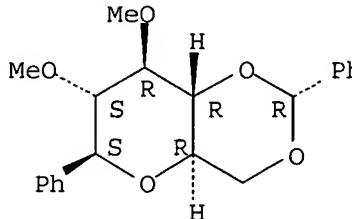
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 36 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
RN 511274-41-2 REGISTRY

ED Entered STN: 06 May 2003
 CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C21 H24 O5
 SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER, USPAT2, USPATFULL

Absolute stereochemistry. Rotation (-).

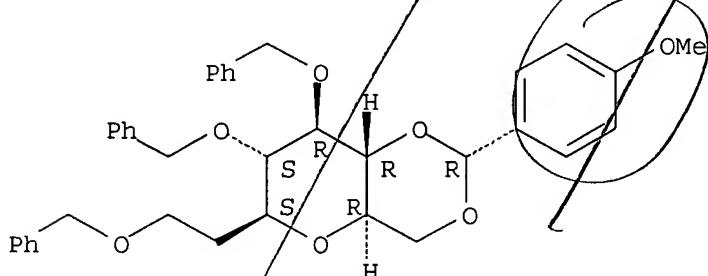


PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

3 REFERENCES IN FILE CA (1907 TO DATE)
 3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 37 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 482646-98-0 REGISTRY
 ED Entered STN: 29 Jan 2003
 CN D-glycero-D-gulo-Octitol, 3,7-anhydro-2-deoxy-6,8-O-[(R)-(4-methoxyphenyl)methylene]-1,4,5-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C37 H40 O7
 SR CA
 LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER

Absolute stereochemistry.



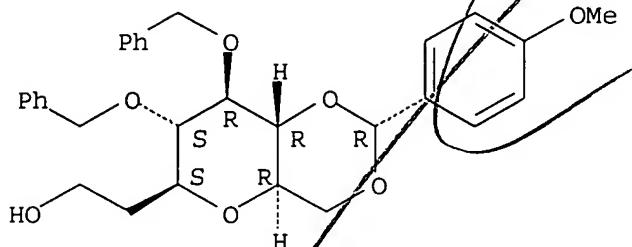
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 38 OF 38 REGISTRY COPYRIGHT 2006 ACS on STN
 RN 482646-97-9 REGISTRY
 ED Entered STN: 29 Jan 2003
 CN D-glycero-D-gulo-Octitol, 3,7-anhydro-2-deoxy-6,8-O-[(R)-(4-methoxyphenyl)methylene]-4,5-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)
 FS STEREOSEARCH
 MF C30 H34 O7

SR CA
LC STN Files: CA, CAPLUS, CASREACT, TOXCENTER

Absolute stereochemistry.



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus
COST IN U.S. DOLLARS
FULL ESTIMATED COST

SINCE FILE ENTRY	TOTAL SESSION
239.58	239.79

FILE 'CAPLUS' ENTERED AT 20:03:10 ON 06 JAN 2006
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L2 0 S L1 SAM
L3 38 S L1 FULL

FILE 'CAPLUS' ENTERED AT 20:03:10 ON 06 JAN 2006

=> d 13

YOU HAVE REQUESTED DATA FROM FILE 'REGISTRY' - CONTINUE? (Y)/N:n

=> s 13

L4 15 L3

=> d 14 bib abs hitstr 1-15

L4 ANSWER 1 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:1146690 CAPLUS

DN 144:23075

TI A Convergent Ring-Closing Metathesis Approach to Carbohydrate-Based Macrolides with Potential Antibiotic Activity

AU Blom, Petra; Ruttens, Bart; Van Hoof, Steven; Hubrecht, Idzi; Van der Eycken, Johan; Sas, Benedikt; Van hemel, Johan; Vandenkerckhove, Jan

CS Laboratory for Organic and Bioorganic Synthesis, Department of Organic Chemistry, Ghent University, Ghent, B-9000, Belg.

SO Journal of Organic Chemistry (2005), 70(24), 10109-10112
CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

AB An efficient convergent approach has been developed for the construction of novel, non-natural, carbohydrate-based macrolides. The key step in the synthesis is the formation of the macrocyclic ring via a ring-closing metathesis reaction. The obtained macrolide analogs have been screened for biol. activity against Gram-pos. and Gram-neg. bacteria, including resistant strains, yeasts, and molds.

IT 511274-41-2P 511274-42-3P

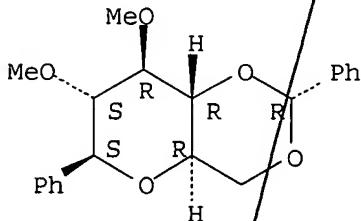
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(convergent ring-closing metathesis approach to carbohydrate-based macrolides with potential antibiotic activity)

RN 511274-41-2 CAPLUS

CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)

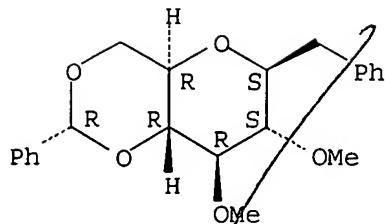
Absolute stereochemistry. Rotation (-).



RN 511274-42-3 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-3,4-di-O-methyl-1-phenyl-5,7-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

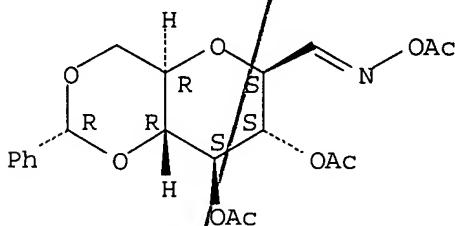
Absolute stereochemistry.



RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

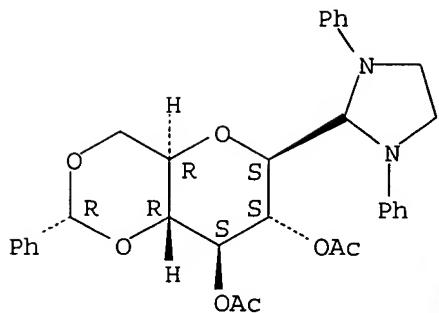
L4 ANSWER 2 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:560681 CAPLUS
 DN 143:230118
 TI Selective Reductions of C-(4,6-O-Benzylidene- β -D-glucopyranosyl) Nitromethane
 AU Simo, Ondrej; Michael, Katja; Yoshida, Wesley; Chertkov, Vyacheslav; Gross, Paul
 CS Department of Chemistry, University of the Pacific, Stockton, CA, USA
 SO Synthetic Communications (2005) 35(12), 1589-1599
 CODEN: SYNCV; ISSN: 0039-7911
 PB Taylor & Francis, Inc.
 DT Journal
 LA English
 AB The nitromethyl group of C-(4,6-O-benzylidene- β -D-glucopyranosyl) nitromethane was manipulated by various reduction and oxidation methods and further functionalizations into -CH₂NHOH, -CH=NOH, -CN, -CH=O, and -CH₂NHCONH₂, all with retention of the 4,6-O-benzylidene group. Certain reduction methods gave rise to a novel secondary amine via an unusual dimeric aminal.
 IT 863023-76-1P 863023-79-4P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (chemoselective redns. of the nitromethyl group of C-(4,6-O-benzylidene- β -D-glucopyranosyl) nitromethane containing glycosides and oligosaccharides)
 RN 863023-76-1 CAPLUS
 CN D-glycero-D-gulo-Heptose, 2,6-anhydro-5,7-O-[(R)-phenylmethylene]-, O-acetyloxime, 3,4-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.
 Double bond geometry unknown.



RN 863023-79-4 CAPLUS
 CN D-Glucitol, 1,5-anhydro-1-C-(1,3-diphenyl-2-imidazolidinyl)-4,6-O-[(R)-phenylmethylene]-, 2,3-diacetate, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 863023-77-2P 863023-80-7P

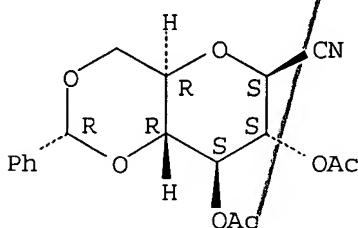
RL: SPN (Synthetic preparation); PREP (Preparation)

SRN (Synthetic Preparation), TREP (Preparation),
(chemoselective redns. of the nitromethyl group of C-(4,6-O-benzylidene-
ss-D-glucopyranosyl) nitromethane containing glycosides and
oligosaccharides)

BN 863023-77-2 CAPLUS

KN 033203-77-2 CAFES
CN D-glycero-D-gulo-Heptononitrile, 2,6-anhydro-5,7-O-[(R)-phenylmethylene]-, 3,4-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

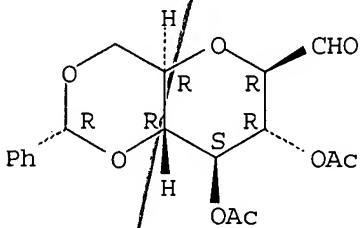


RN 863023-807 CAPLUS

CN D-glycero-D-gulo-He

3,4-diacetate (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:371015 CAPLUS

DN 142:411583

TI Bicyclic carbohydrate compounds useful in the treatment of infections caused by Herpesviridae

IN Sas, Benedikt; Van Hemel, Johan; Vandenkerckhove, Jan; Peys, Eric; Van Der Eycken, Johan; Ruttens, Bart; Blom, Petra

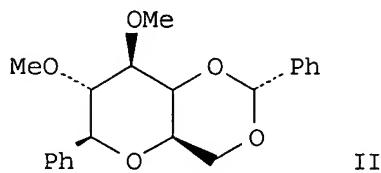
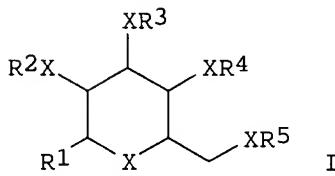
PA Belq.

SO U.S. Pat. Appl. Publ., 18 pp.

CODEN: USXXCO

DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 2005090452 US 2005267048 US 2003158243 US 2004224904 WO 2005062748	A1 A9 A1 A1 A2	20050428 20051201 20030821 20041111 20050714	US 2003-690914 US 2001-977478 US 2004-861768 WO 2004-US34886	20031022 20011015 20040604 20041022
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
PRAI	US 2001-977478 US 2003-690914	A2 A	20011015 20031022		
OS	MARPAT 142:411583				
GI					



relate
inventor's
rev. w/
print
2003/158,243

AB Bicyclic glycoside I, wherein wherein R1 is either Bn, Ph; R2 and R3 are either alkyl, aryl, allyl, H; R4 and R5 form a ring and are either CH(Ph) or CH(aryl); X is either O, N or S, were prepared and tested for the treatment of infections caused by Herpesviridae, and in particular cytomegalovirus. The compds. were screened against various pathogenic viruses and more specific the human Cytomegalovirus (CMV). Antiviral activity of these new mols. are in the same range as the activity of ganciclovir for CMV screenings. Thus, bicyclic glycoside II was prepared and tested in vitro for the treatment of infections caused by Cytomegalovirus (EC50 = 0.47 to 3.2 μ g/mL).

IT 511274-41-2P 511274-42-3P 846061-32-3P
850313-76-7P 850313-77-8P 850313-79-0P
850313-81-4P

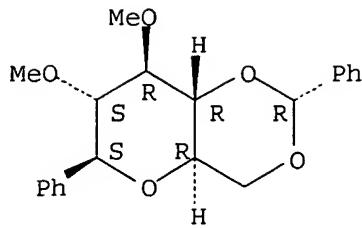
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of bicyclic glycosides as antiviral agents useful in treatment of infections caused by herpesviridae)

RN 511274-41-2 CAPLUS

CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)

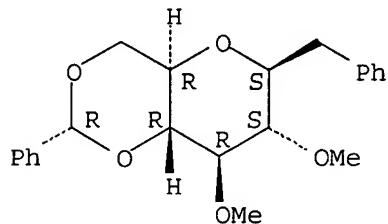
Absolute stereochemistry. Rotation (-).



RN 511274-42-3 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-3,4-di-O-methyl-1-phenyl-5,7-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

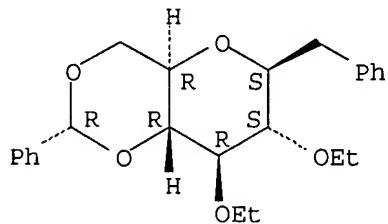
Absolute stereochemistry.



RN 846061-32-3 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-3,4-di-O-ethyl-1-phenyl-5,7-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

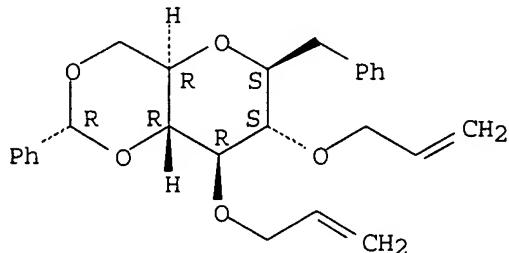
Absolute stereochemistry.



RN 850313-76-7 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-1-phenyl-5,7-O-[(R)-phenylmethylene]-3,4-di-O-2-propenyl- (9CI) (CA INDEX NAME)

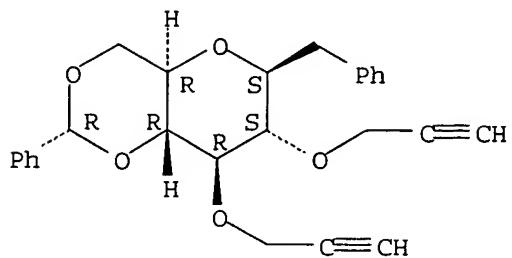
Absolute stereochemistry.



RN 850313-77-8 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-1-phenyl-5,7-O-[(R)-phenylmethylene]-3,4-di-O-2-propynyl- (9CI) (CA INDEX NAME)

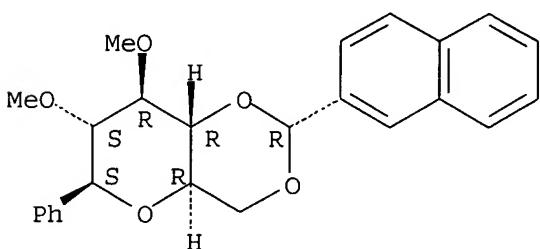
Absolute stereochemistry. Rotation (-).



RN 850313-79-0 CAPLUS

CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-4,6-O-[(R)-2-naphthalenylmethylene]-1-C-phenyl-, (1S)- (9CI) (CA INDEX NAME)

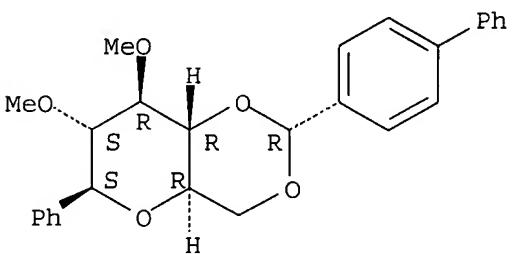
Absolute stereochemistry. Rotation (-).



RN 850313-81-4 CAPLUS

CN D-Glucitol, 1,5-anhydro-4,6-O-[(R)-[1,1'-biphenyl]-4-ylmethylene]-2,3-di-O-methyl-1-C-phenyl-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



L4 ANSWER 4 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:238681 CAPLUS

DN 142:261733

TI Preparation of bicyclic glycosides as antiviral agents for the treatment of infections caused by the Alphaherpesvirinae HSV-1 and HSV-2

IN Sas, Benedikt; Van Hemel, Johan; Vandenkerckhove, Jan; Peys, Eric; Van Der Eycken, Johan; Van Hoof, Steven

PA Belg.

SO U.S. Pat. Appl. Publ., 15 pp.
CODEN: USXXCO

DT Patent

LA English

FAN.CNT 1

PATENT NO.

KIND DATE

APPLICATION NO.

DATE

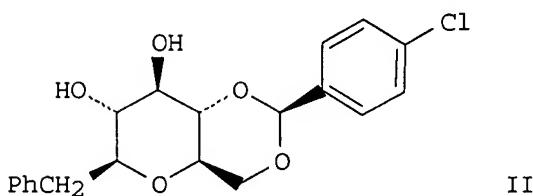
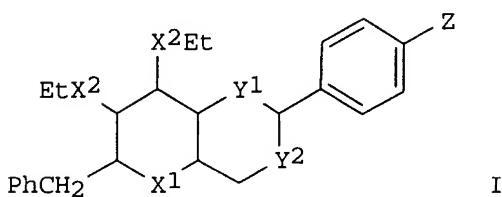
PI	US 2005059612	A1	20050317	US 2003-663962	20030916
	WO 2005048921	A2	20050602	WO 2004-US30205	20040916
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PRAI US 2003-663962 A 20030916

OS MARPAT 142:261733

GI

related inventors
Printed



AB Novel bicyclic glycosides I, wherein X1-X3 and Y1 and Y2 are independently selected from the group consisting of O, N, and S; Z is selected from the group consisting of F, Cl, and Br, as well as analogs, prodrugs and pharmaceutically acceptable salts thereof, together with pharmaceutical compns. for the prophylaxis and treatment of diseases caused by infections of Alphaherpesvirinae and are effective for the prophylaxis and treatment of diseases caused by infections of the Alphaherpesvirinae HSV-1 and HSV-2. Thus, glycoside II was prepared and tested as antiviral agent against HSV-1 (EC50 = 3 μ g/mL) and HSV-2 (EC50 < 0.03 μ g/mL) viruses. The mols. were screened in vitro against a series of viruses such as West Nile virus, human cytomegalovirus (HCMV), herpes simplex virus type 1 (HSV-1), herpes simplex virus type 2 (HSV-2) and varicella zoster virus (VZV).

IT 846061-31-2P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

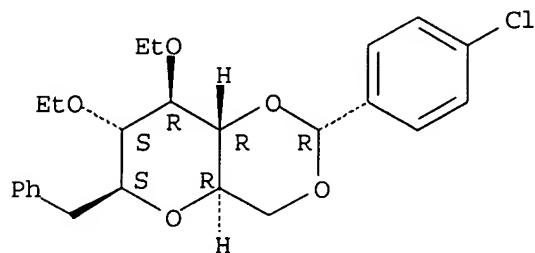
(preparation of bicyclic glycosides as antiviral agents for the treatment of infections caused by the Alphaherpesvirinae HSV-1 and HSV-2)

RN 846061-31-2 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5,7-O-[(R)-4-

chlorophenyl)methylene]-1-deoxy-3,4-di-O-ethyl-1-phenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 846061-32-3 846061-33-4 846061-34-5

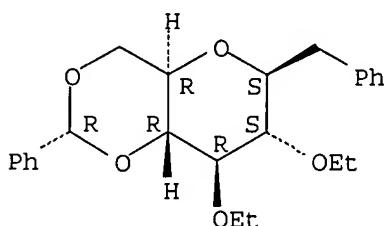
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of bicyclic glycosides as antiviral agents for the treatment of infections caused by the Alphaherpesvirinae HSV-1 and HSV-2)

RN 846061-32-3 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-3,4-di-O-ethyl-1-phenyl-5,7-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

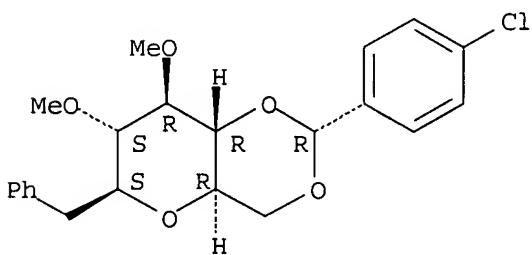
Absolute stereochemistry.



RN 846061-33-4 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5,7-O-[(R)-4-chlorophenyl)methylene]-1-deoxy-3,4-di-O-methyl-1-phenyl- (9CI) (CA INDEX NAME)

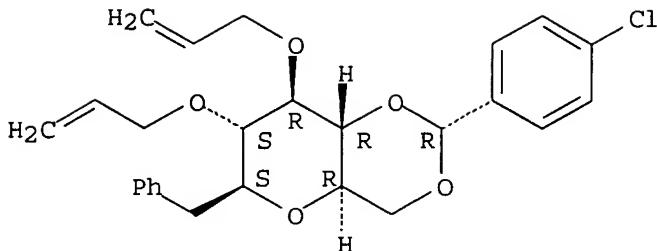
Absolute stereochemistry.



RN 846061-34-5 CAPLUS

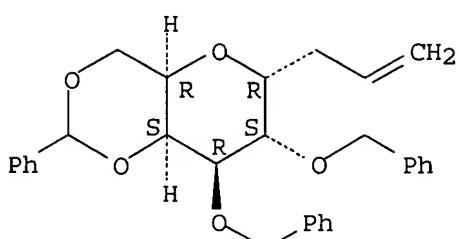
CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5,7-O-[(R)-4-chlorophenyl)methylene]-1-deoxy-1-phenyl-3,4-di-O-2-propenyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 5 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2004:830839 CAPLUS
 DN 142:23422
 TI Intramolecular aldol cyclization of C-4-ulopyranosyl-2'-oxoalkanes controlled by steric effects. Asymmetric synthesis of substituted 8-oxabicyclo[3.2.1]octanones and -octenones and cyclopentenones
 AU Zou, Wei; Shao, Huawu; Wu, Shih-Hsiung
 CS Institute for Biological Sciences, National Research Council of Canada, Ottawa, ON, K1A 0R6, Can.
 SO Carbohydrate Research (2004), 339(15), 2475-2485
 CODEN: CRBRAT; ISSN: 0008-6215
 PB Elsevier B.V.
 DT Journal
 LA English
 OS CASREACT 142:23422
 AB Whereas C-2- and 4-ulopyranosyl compds. (C-2- and C-4-ulosides) can be converted to cyclopentenones under base conditions through β -elimination and ring contraction, base-initiated β -elimination of C-glycosyl 2'-aldehydes and 2'-ketones results in the formation of acyclic α , β -unsatd. aldehydes or ketones. By combining both mol. features, 1-C-(4-ulopyranosyl)-2-oxoalkanes were synthesized and their reactions when treated with base were investigated. Both α - and β -anomers of C-(4-ulopyranosyl)acetaldehydes underwent a fast intramol. aldol reaction between the C-5 enolate and 2'-aldehyde to form optically pure 8-oxabicyclo[3.2.1]octanones, which further transformed to 8-oxabicyclo[3.2.1]octenones by β -elimination. However, this aldol reaction did not occur when 1-C-(4-ulopyranosyl)propan-2-one was treated with base because of steric hindrance exerted by the addnl. Me group. Instead, an alternate C-3 enolization led to β -elimination and further electro-ring opening to form an acyclic enol, which was then converted through a disrotatory intramol. aldol cyclization to a cis-substituted cyclopentenone.
 IT 800393-84-4P 800393-89-9P 800393-91-3P
 800394-09-6P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (asym. synthesis of substituted 8-oxabicyclo[3.2.1]octanones and -octenones and cyclopentenones via intramol. aldol cyclization, β -elimination, and electro-ring opening)
 RN 800393-84-4 CAPLUS
 CN D-glycero-L-galacto-Non-8-enitol, 2,6-anhydro-7,8,9-trideoxy-4,5-bis-O-(phenylmethyl)-1,3-O-(phenylmethylene)- (9CI) (CA INDEX NAME)

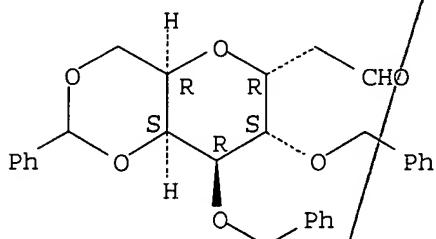
Absolute stereochemistry.



RN 800393-89-9 CAPLUS

CN D-glycero-L-gluco-Octose, 3,7-anhydro-2-deoxy-4,5-bis-O-(phenylmethyl)-6,8-O-(phenylmethylene)- (9CI) (CA INDEX NAME)

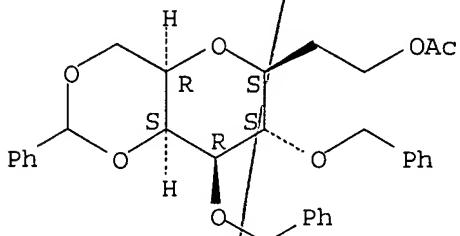
Absolute stereochemistry.



RN 800393-91-3 CAPLUS

CN L-glycero-L-galacto-Octitol, 2,6-anhydro-7-deoxy-4,5-bis-O-(phenylmethyl)-1,3-O-(phenylmethylene)-, acetate (9CI) (CA INDEX NAME)

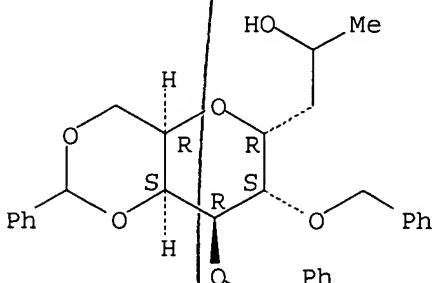
Absolute stereochemistry.



RN 800394-09-6 CAPLUS

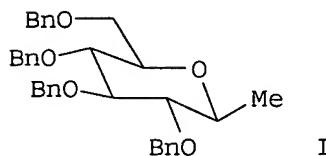
CN D-glycero-L-galacto-Nonitol, 2,6-anhydro-7,9-dideoxy-4,5-bis-O-(phenylmethyl)-1,3-O-(phenylmethylene)-, (8ξ)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:773147 CAPLUS
DN 141:424352
TI An Efficient Synthesis of β -C-Glycosides Based on the Conformational Restriction Strategy: Lewis Acid Promoted Silane Reduction of the Anomeric Position with Complete Stereoselectivity
AU Terauchi, Masaru; Abe, Hiroshi; Matsuda, Akira; Shuto, Satoshi
CS Graduate School of Pharmaceutical Sciences, Hokkaido University, Sapporo, 060-0812, Japan
SO Organic Letters (2004), 6(21), 3751-3754
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:424352
GI

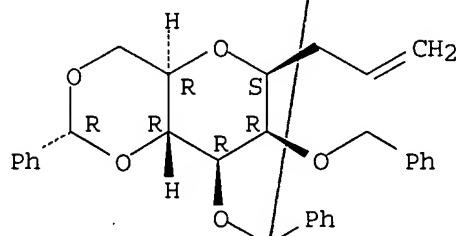


AB The reduction of glycono-lactols having an anomeric carbon substituent by Et₃SiH/TMSOTf proceeded with complete stereoselectivity to produce the corresponding β -C-glycosides, e.g. I, when the substrates were conformationally restricted in the 4C1-chair form by a 3,4-O-cyclic di-ketal or a 4,6-O-benzylidene protecting group. Thus, the efficient construction of β -C-glycosides was achieved on the basis of the conformation restriction strategy.

IT 795306-04-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of β -C-glycosides based on conformational restriction strategy and stereoselective Lewis acid promoted silane reduction of anomeric position)

RN 795306-04-6 CAPLUS
CN D-glycero-D-galacto-Non-1-enitol, 4,8-anhydro-1,2,3-trideoxy-5,6-bis-O-(phenylmethyl)-7,9-O-[(R)-phenylmethylene] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2004:610047 CAPLUS

DN 141:134051
TI Bicyclic carbohydrates as antiprotozoal bioactive for the treatment of infections caused by parasites
IN Sas, Benedikt; Van Hemel, Johan; Vandenkerckhove, Jan; Van Hemel, Johan; Peys, Eric; Van Der Eycken, Johan; Ruttens, Bart; Van Hoof, Steven
PA Kemin Pharma Europe B.V.B.A., USA
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2

PT Patent

LA English

HA Engt
EAN CNT 1

FAN.CNT 1
DATE

PATENT NO.

PI WO 2004062590 A2 20040729 WO 2004-US311 20040107
WO 2004062590 A3 20050407
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AU, AZ, AZ, BA, BB,
BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR,
CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG,
ES, ES, FI, FI, GB, GD, GE, GE, GH, GH, GH, GM, HR, HR, HU, HU,
ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KP, KR, KR, KZ,
KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN,
MW, MX, MX, MZ

US 2004180838 A1 20040916 US 2004-752792 20040107
PRAI US 2003-438474P P 20030107 *Q-101*

OS MARPAT 141:134051

AB The use of bicyclic carbohydrates for the treatment of parasite infections is described. Different bicyclic carbohydrates have been tested in vitro against a number of protozoa. These compds. also have been screened against viruses, tumors, bacteria and fungi. Compound A1, a thiophenyl-containing bicyclic carbohydrate possessed significant activity against *Trypanosoma brucei rhodesiense*, a parasite that causes the lethal sleeping sickness. Compound A2 and Compound A3, bicyclic carbohydrates with halogen containing

groups, possessed significant activity against *Leishmania donovani*, a parasite that causes leishmaniasis. Bicyclic carbohydrates in general, and Compound A1, Compound A2 and Compound A3 more specifically, could be possible treatments for the sleeping sickness and leishmaniasis in the future.

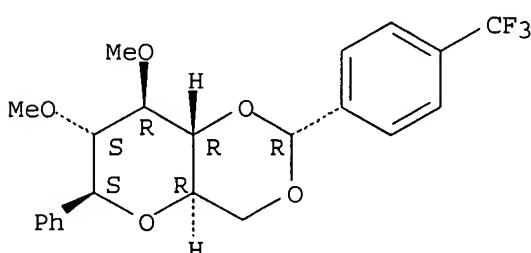
IT 727416-80-0B

RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological
study); PREP (Preparation); USES (Uses)
(bicyclic carbohydrates as antiprotozoal agent for treatment of
parasite infections)

BN 727416-80-0 CAPLUS

CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-1-C-phenyl-4,6-O-[(R)-[4-(trifluoromethyl)phenyl]methylene]- (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry Rotation (-)

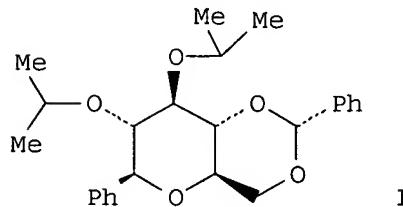


AN 2004:610040 CAPLUS
 DN 141:134050
 TI Bicyclic carbohydrate compounds useful in the treatment of infections
 caused by Flaviviridae sp., such as hepatitis C and bovine viral diarrhea
 viruses
 IN Sas, Benedikt; Van Hemel, Johan; Vandenkerckhove, Jan; Peys, Eric; Van Der
 Eycken, Johan; Ruttens, Bart; Balzarini, Jan; Declercq, Erik; Nuyts, Johan
 PA Kemin Pharma L.C., USA
 SO PCT Int. Appl., 23 pp.
 CODEN: PIXXD2
 DT Patent
 LA English

FAN CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004062575	A2	20040729	WO 2003-US41720	20031222
	WO 2004062575	A3	20041209		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	CA 2512713	AA	20040729	CA 2003-2512713	20031222
	US 2004209823	A1	20041021	US 2003-743111	20031222
	EP 1590357	A2	20051102	EP 2003-810090	20031222
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRAI	US 2003-438475P	P	20030107		
	WO 2003-US41720	W	20031222		
OS	MARPAT	141:134050			
GI					

M, W



AB We describe the use of bicyclic carbohydrates for the treatment of hepatitis C virus infections. Different bicyclic carbohydrates were tested in vitro against DNA-viruses, retroviruses and Flaviviridae sp., an important family of human and animal RNA pathogens. Significant activity was observed against the bovine viral diarrhea virus (BVDV). As pestiviruses, such as BVDV, share many similarities with hepatitis C virus (HCV), the bicyclic carbohydrates in general and the preferred bicyclic carbohydrates more specifically are expected to be a treatment for hepatitis C viral infections. I (preparation given) had an EC50 <0.8 µg/mL against BVDV.

IT 727415-90-9P 727415-91-0P 727415-92-1P

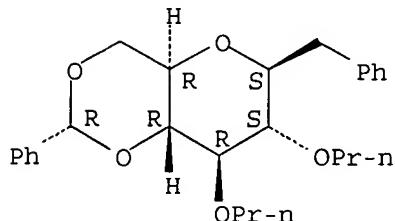
RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
 SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological

study); PREP (Preparation); USES (Uses)
(bicyclic carbohydrate compds. useful in treatment of infections caused
by Flaviviridae sp., such as hepatitis C and bovine viral diarrhea
viruses)

RN 727415-90-9 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-1-phenyl-5,7-O-[(R)-
phenylmethylene]-3,4-di-O-propyl- (9CI) (CA INDEX NAME)

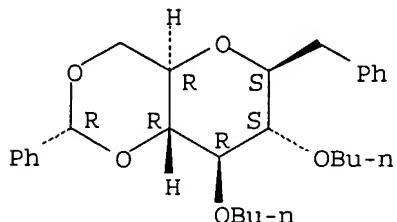
Absolute stereochemistry. Rotation (-).



RN 727415-91-0 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-3,4-di-O-butyl-1-deoxy-1-phenyl-5,7-
O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

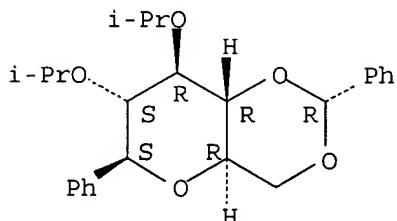
Absolute stereochemistry. Rotation (-).



RN 727415-92-1 CAPLUS

CN D-Glucitol, 1,5-anhydro-2,3-bis-O-(1-methylethyl)-1-C-phenyl-4,6-O-[(R)-
phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



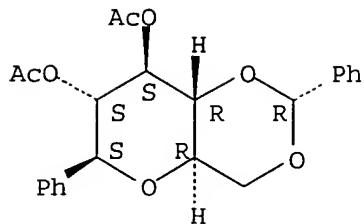
IT 727415-94-3P 727415-96-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
(Reactant or reagent)
(bicyclic carbohydrate compds. useful in treatment of infections caused
by Flaviviridae sp., such as hepatitis C and bovine viral diarrhea
viruses)

RN 727415-94-3 CAPLUS

CN D-Glucitol, 1,5-anhydro-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-,
diacetate, (1S)- (9CI) (CA INDEX NAME)

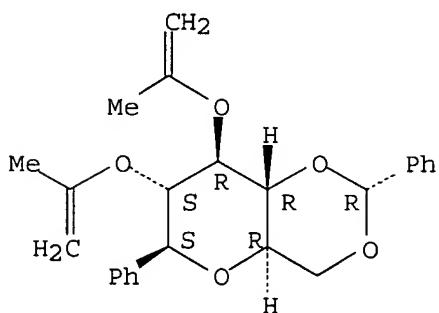
Absolute stereochemistry. Rotation (-).



RN 727415-96-5 CAPLUS

CN D-Glucitol, 1,5-anhydro-2,3-bis-O-(1-methylethyl)-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 9 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2004:350722 CAPLUS

DN 141:332381

TI Alkaline Degradation of Glycosides. Part 5. Synthesis of a Ring-Rigid Disaccharide Model for Studies of Alkaline Chain Cleavage in Cellulose

AU Croll, David C.; Schroeder, Leland R.

CS Paper Science and Engineering Faculty, SUNY College of Environmental Science and Forestry, Syracuse, NY, 13210, USA

SO Journal of Wood Chemistry and Technology (2004), 24(1), 27-38
CODEN: JWCTDJ; ISSN: 0277-3813

PB Marcel Dekker, Inc.

DT Journal

LA English

AB 2,6-Anhydro-1,3-O-methylene-5-O-(4,6-O-methylene- β -D-glucopyranosyl)-D-glycero-D-gulitol was synthesized as a non-reducing cellulose model compound for studying high temperature alkaline cleavage of the glucosidic linkage.

The pyranoid rings are limited in their ability to change conformation by the methylene moieties attached to each ring. Thus the compound more closely models the situation for internal glycosidic linkages of cellulose. A related model with the 2' hydroxyl group etherified, 2,6-anhydro-1,3-O-methylene-5-O-(2-O-methyl-4,6-O-methylene- β -D-glucopyranosyl)-D-glycero-D-gulitol was also synthesized.

IT 770727-51-0P 770727-53-2P

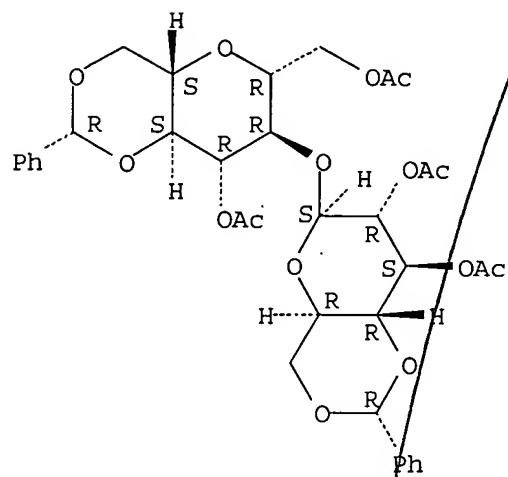
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of a ring-rigid disaccharide model for studies of alkaline chain cleavage in cellulose)

RN 770727-51-0 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5-O-[2,3-di-O-acetyl-4,6-O-[(R)-phenylmethylene]- β -D-glucopyranosyl]-1,3-O-[(R)-phenylmethylene]-, diacetate (9CI) (CA INDEX NAME)

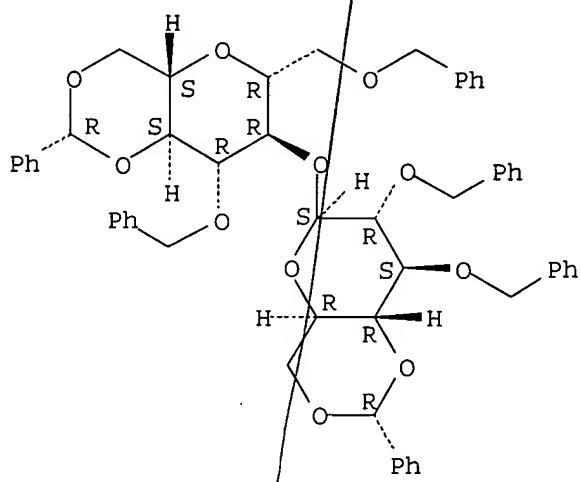
Absolute stereochemistry. Rotation (+).



RN 770727-53-2 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-5-O-[2,3-bis-O-(phenylmethyl)-4,6-O-[(R)-phenylmethylene]-β-D-glucopyranosyl]-4,7-bis-O-(phenylmethyl)-1,3-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:738805 CAPLUS

DN 139:381689

TI Synthesis of Both Possible Isomers of the Northwest Quadrant of Altromycin B

AU Pasetto, Paolo; Franck, Richard W.

CS Department of Chemistry, Hunter College, The City University of New York, New York, NY, 10021, USA

SO Journal of Organic Chemistry (2003), 68(21), 8042-8060
CODEN: JOCEAH; ISSN: 0022-3263

PB American Chemical Society

DT Journal

LA English

OS CASREACT 139:381689

AB The synthesis of the northwest quadrant of Altromycin B is described. The preparation of the two epimers at the quaternary carbon of the 6-deoxy-C-altrose moiety in the northwest quadrant is accomplished starting from D-glucose. A key step of our synthetic sequence is the formation of the C-glycoside linkage via the Ramberg-Bäcklund reaction. Two different routes are explored, which differ mainly on the timing of the conversion of glucose to altrose, either before or after the preparation of the C-glycoside. The conformation behavior of variously substituted C-altropyranoside rings is also discussed.

IT 623148-57-2P 623148-59-4P

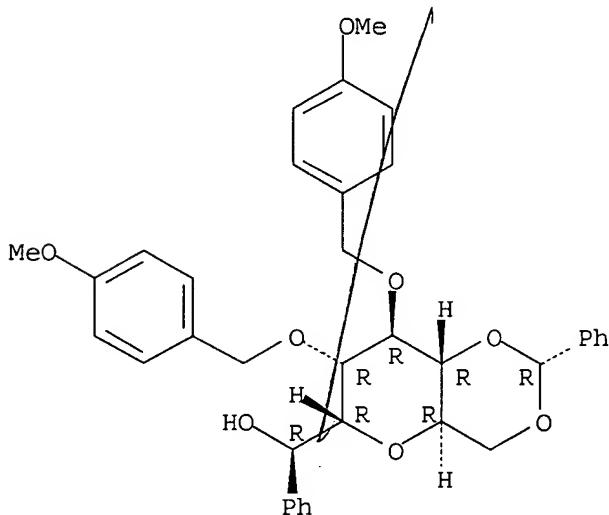
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis and conformation of both possible isomers of northwest quadrant of altromycin B from D-glucose via Ramberg-Bäcklund reaction)

RN 623148-57-2 CAPLUS

CN D-glycero-L-gulo-Heptitol, 2,6-anhydro-4,5-bis-O-[(4-methoxyphenyl)methyl]-7-C-phenyl-1,3-O-[(R)-phenylmethylene]-, (7R)- (9CI) (CA INDEX NAME)

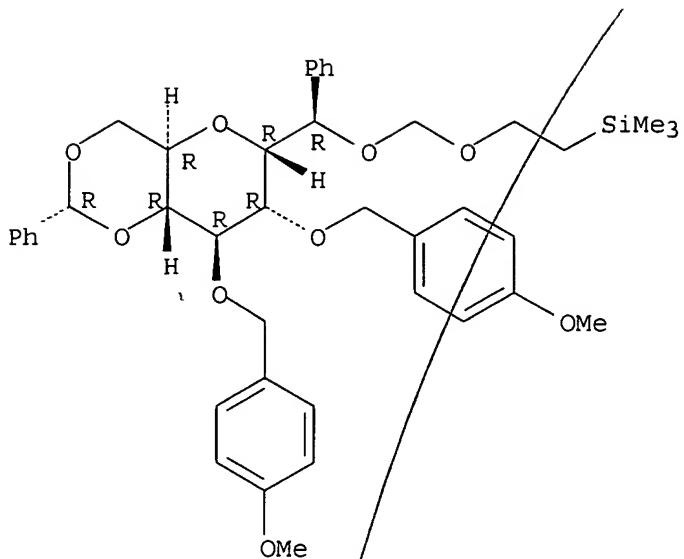
Absolute stereochemistry.



RN 623148-59-4 CAPLUS

CN D-glycero-L-gulo-Heptitol, 2,6-anhydro-4,5-bis-O-[(4-methoxyphenyl)methyl]-7-C-phenyl-1,3-O-[(R)-phenylmethylene]-7-O-[[2-(trimethylsilyl)ethoxy]methyl]-, (7R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



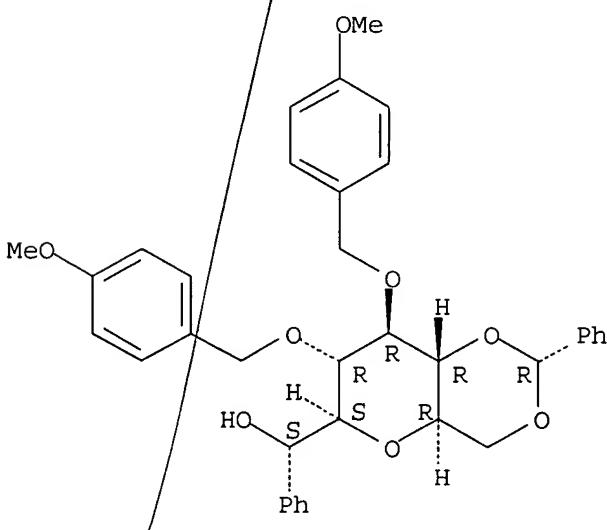
IT 623148-58-3P

RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis and conformation of both possible isomers of northwest quadrant of altromycin B from D-glucose via Ramberg-Backlund reaction)

RN 623148-58-3 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-3,4-bis-O-[(4-methoxyphenyl)methyl]-1-C-phenyl-5,7-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 78

THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 11 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:595156 CAPLUS

DN 140:104492

TI Analogues of the mycobacterial arabinogalactan linkage disaccharide as cell wall biosynthesis inhibitors

AU Wen, Xianghui; Crick, Dean C.; Brennan, Patrick J.; Hultin, Philip G.

CS Department of Chemistry, University of Manitoba, Winnipeg, MB, R3T 2N2, Can.

SO Bioorganic & Medicinal Chemistry (2003), 11(17), 3579-3587

CODEN: BMECEP; ISSN: 0968-0896

PB Elsevier Science Ltd.

DT Journal

LA English

AB The mycobacterial arabinogalactan linkage disaccharide [α -L-Rha-(1 \rightarrow 3)- α -D-GlcNAc] provides a basis for the design of new antitubercular drugs, since it supports a key skeletal structure in the bacterial cell wall. A series of analogs of the linker was synthesized by coupling appropriate thiorhamnosyl donors modified at their 4-positions, with an N-acetyl glucosamine acceptor. In a cell-free enzyme inhibition assay, three analogs inhibited the activity of the galactosyltransferase that adds a GalP residue to the linkage disaccharide. Although the compds. were modest inhibitors, these data confirm the viability of this approach to anti-mycobacterial agents. It is especially significant that the three effective compds. are modified at the site of the acceptor atom in the natural substrate.

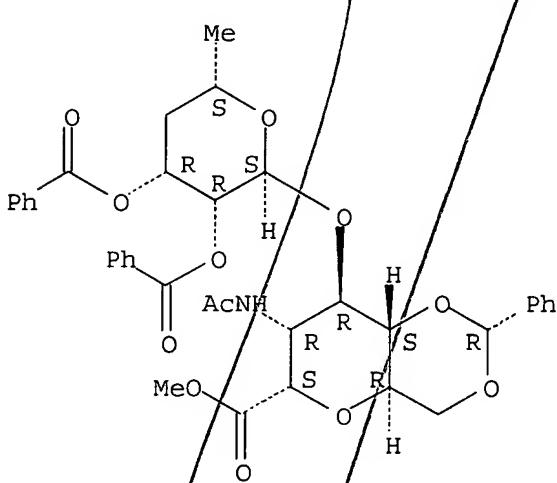
IT 648431-78-1P 648431-79-2P 648431-84-9P

RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(analogs of the mycobacterial arabinogalactan linkage disaccharide as cell wall biosynthesis inhibitors)

RN 648431-78-1 CAPLUS

CN D-glycero-D-ido-Heptonic acid, 3-(acetylamino)-2,6-anhydro-3-deoxy-4-O-(2,3-di-O-benzoyl-4,6-dideoxy- α -L-lyxo-hexopyranosyl)-5,7-O-[(R)-phenylmethylene]-, methyl ester (9CI) (CA INDEX NAME)

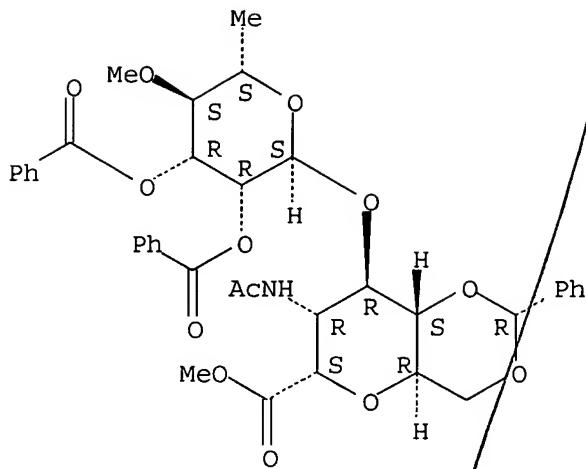
Absolute stereochemistry.



RN 648431-79-2 CAPLUS

CN D-glycero-D-ido-Heptonic acid, 3-(acetylamino)-2,6-anhydro-3-deoxy-4-O-(2,3-di-O-benzoyl-6-deoxy-4-O-methyl- α -L-mannopyranosyl)-5,7-O-[(R)-phenylmethylene]-, methyl ester (9CI) (CA INDEX NAME)

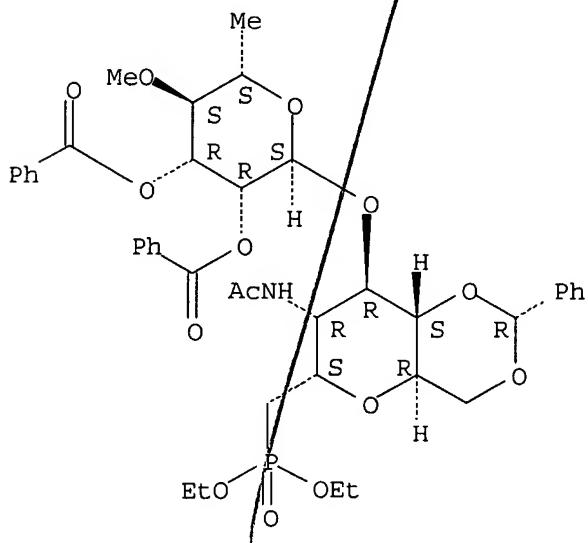
Absolute stereochemistry.



RN 648431-84-9 CAPLUS

CN D-glycero-L-gulo-Heptitol, 5-(acetylamino)-2,6-anhydro-5,7-dideoxy-4-O-(2,3-di-O-benzoyl-6-deoxy-4-O-methyl- α -L-mannopyranosyl)-7-(diethoxyphosphinyl)-1,3-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:384377 CAPLUS

DN 139:230897

TI Synthesis of thio-C-glycosides from 2'-carbonylalkyl C-glycosides by a tandem β -elimination and intramolecular hetero-Michael addition

AU Zou, Wei; Lacroix, Edith; Wang, Zerong; Wu, Shih-Hsiung

CS Institute for Biological Sciences, National Research Council of Canada, Ottawa, ON, K1A 0R6, Can.

SO Tetrahedron Letters (2003), 44(24), 4431-4433

CODEN: TELEAY; ISSN: 0040-4039

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 139:230897

AB 2'-Carbonyl 5-S-acetyl-C-glycofuranosides and 2'-carbonyl

4-S-acetyl-C-glycopyranosides were converted in good yields to 5-thio-C-glycopyranosides and 4-thio-C-glycofuranosides under base treatment. The transformation resulted from β -elimination on 2'-carbonyl C-glycoside to form α, β -conjugated aldehyde (or ketone) and subsequent intramol. hetero-Michael addition by the thiol group.

IT 592532-99-5P

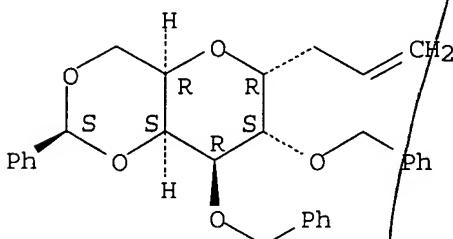
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of thio-C-glycosides from 2'-carbonylalkyl C-glycosides via tandem β -elimination and intramol. hetero-Michael addition as the key steps)

RN 592532-99-5 CAPLUS

CN D-glycero-L-galacto-Non-8-enitol, 2,6-anhydro-7,8,9-trideoxy-4,5-bis-O-(phenylmethyl)-1,3-O-[(S)-phenylmethylene] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2003:319645 CAPLUS

DN 138:321501

TI Preparation and use of glycoside-based ring structures with antimicrobial and cytostatic activity

IN Sas, Benedikt; Van Der Eycken, Johan; Van Hemel, Johan; Blom, Petra; Vandenkerckhove, Jan; Ruttens, Bart

PA Kemin Pharma Europe, USA

SO PCT Int. Appl., 99 pp.

CODEN: PIXXD2

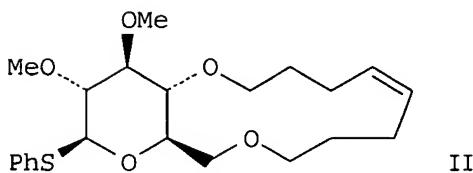
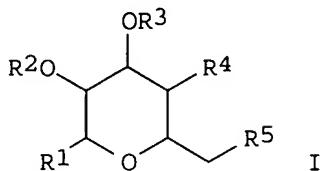
DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2003032905	A2	20030424	WO 2002-US22817	20021015
	WO 2003032905	A3	20040129		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	US 2003158243	A1	20030821	US 2001-977478	20011015
	CA 2463084	AA	20030424	CA 2002-2463084	20021015
	EP 1446391	A2	20040818	EP 2002-770578	20021015
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK			

JP 2005509615	T2 20050414	JP 2003-535711	20021015
US 2004224904	A1 20041111	US 2004-861768	20040604
PRAI US 2001-977478	A 20011015		
WO 2002-US32817	W 20021015		
OS MARPAT 138:321501			
GI			



AB Novel glycoside-based compds. I, wherein R1 is H, SPh, Ph, PhS, All, Bn; R2 is H, Et, All, Me, Bn; R3 is H, Et, Me, All, Bn; R4 and R5 form a ring and are -carbamate-C6-alkyl-ether-C4-alkenyl-ether-, -ester-C6-alkenyl-ester-, -ester-C6-alkyl-ester-, -ether-C8-alkenyl-ether-, -ester-C6-alkenyl-amide-, -ether-C7-alkenyl-amide-, -ester-C10-alkenyl-ester-, -ester-C18-alkenyl-ester-, -OCH(Ph)CH2O-, with an attached ring system that have antimicrobial or cytostatic activity. The compds. are administered to humans and animals for the treatment or amelioration of bacterial, fungal, viral, or protozoal infections or tumors. Thus, glycoside II was prepared and tested in humans for its antimicrobial and cytostatic activities.

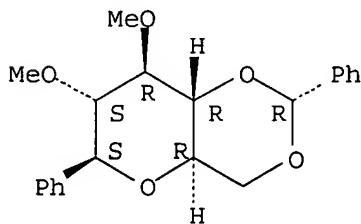
IT 511274-41-2P 511274-42-3P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation and use of glycoside-based ring structures with antimicrobial and cytostatic activity)

RN 511274-41-2 CAPLUS

CN D-Glucitol, 1,5-anhydro-2,3-di-O-methyl-1-C-phenyl-4,6-O-[(R)-phenylmethylene]-, (1S)- (9CI) (CA INDEX NAME)

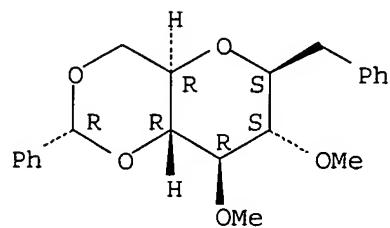
Absolute stereochemistry. Rotation (-).



RN 511274-42-3 CAPLUS

CN D-glycero-D-gulo-Heptitol, 2,6-anhydro-1-deoxy-3,4-di-O-methyl-1-phenyl-5,7-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 511274-46-7P

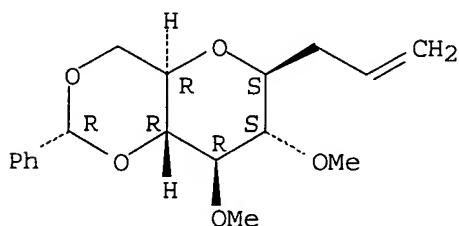
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation and use of glycoside-based ring structures with antimicrobial and cytostatic activity)

RN 511274-46-7 CAPLUS

CN D-glycero-D-gulo-Non-1-enitol, 4,8-anhydro-1,2,3-trideoxy-5,6-di-O-methyl-7,9-O-[(R)-phenylmethylene]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 14 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2002:859447 CAPLUS

DN 138:89617

TI Convergent synthesis of the BCDE-ring part of ciguatoxin

AU Fujiwara, Kenshu; Koyama, Yasuhito; Kawai, Kentaro; Tanaka, Hideki; Murai, Akio

CS Division of Chemistry, Graduate School of Science, Hokkaido University, Sapporo, 060-0810, Japan

SO Synlett (2002), (11), 1835-1838

CODEN: SYNLES; ISSN: 0936-5214

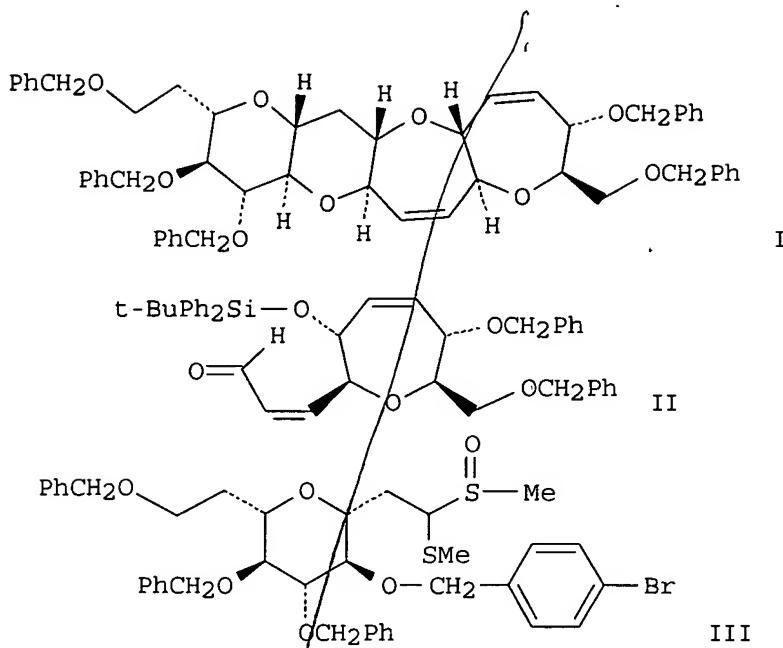
PB Georg Thieme Verlag

DT Journal

LA English

OS CASREACT 138:89617

GI



AB The BCDE-ring part of ciguatoxin, I, has been convergently synthesized by a sequence of reactions involving coupling of the E-ring part, II, having a Z-enal group with the B-ring part, III, as an acyl anion equivalent, selective removal of a p-bromobenzyl protective group using Miyaura's conditions, and reductive cyclization.

IT 482646-97-9

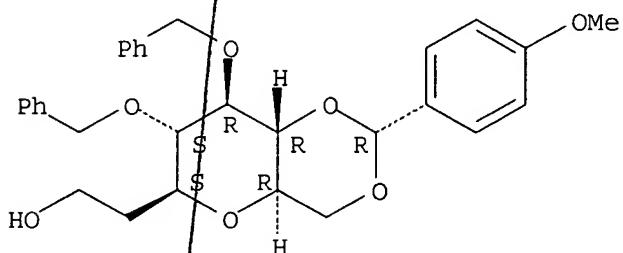
RL: RCT (Reactant); RACT (Reactant or reagent)

(stereoselective preparation of BCDE ring system of ciguatoxin)

RN 482646-97-9 CAPLUS

CN D-glycero-D-gulo-Octitol, 3,7-anhydro-2-deoxy-6,8-O-[(R)-(4-methoxyphenyl)methylene]-4,5-bis-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 482646-98-0P

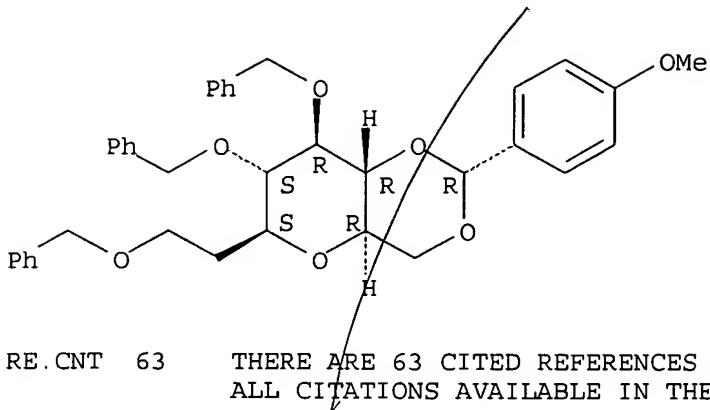
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(stereoselective preparation of BCDE ring system of ciguatoxin)

RN 482646-98-0 CAPLUS

CN D-glycero-D-gulo-Octitol, 3,7-anhydro-2-deoxy-6,8-O-[(R)-(4-methoxyphenyl)methylene]-1,4,5-tris-O-(phenylmethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

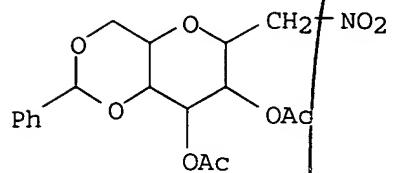


RE.CNT 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 15 OF 15 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 1946:33217 CAPLUS
 DN 40:33217
 OREF 40:6418e-i,6419a
 TI Carbohydrate C-nitro alcohols: 1-nitro-1-desoxy-D- α -glucoheptitol and a 2,6-anhydro-1-nitro-1-desoxyheptitol
 AU Sowden, John C.; Fischer, Hermann O. L.
 CS Univ. of Toronto, Can.
 SO Journal of the American Chemical Society (1946), 68, 1511-13
 CODEN: JACSAT; ISSN: 0002-7863
 DT Journal
 LA Unavailable
 AB cf. C.A. 40, 61.9. 4,6-Benzylidene glucose (I) (100 g.) in 1500 cc. absolute MeOH and 250 cc. MeNO₂, treated with 17.3 g. Na in 1 l. MeOH, allowed to stand at room temperature for 8 hrs., acidified with 47 cc. AcOH, evaporated to a thin syrup, 200 cc. H₂O added, and the solution again concentrated, gives 21% of the 5,7-benzylidene derivative (II), m. 160-2°, [α]D28 -42.5° (H₂O, c 1.1), of 1-nitro-1-desoxy-D-glucosheptitol (III), m. 138-9°, [α]D23 3.1° (H₂O, c 6.4); HI results in 77% yield on hydrolysis of 5 g. of II with 50 cc. 0.1 N H₂SO₄ at 70-5° for 45 min. and at 100° for 15 min. Both II and III vigorously reduce hot Fehling solution. The structure of III follows from the conversion of its Na salt by dilute H₂SO₄ into D- α -glucosheptose (isolated as the benzylphenylhydrazone). III (2 g.) in 40 cc. H₂O, reduced over 1 g. Raney Ni for 55 min., gives 1-amino-1-desoxy-D- α -glucosheptitol, isolated as the p-toluenesulfonate, m. 140-50°, [α]D22 -4.2° (H₂O, c 4), 84% yield. I (126 g.), 250 cc. MeNO₂, 3160 cc. MeOH, and 21.7 g. Na, allowed to stand at room temperature for 24 hrs. and acidified with AcOH, give a sirupy product containing 5% of the 5,7-benzylidene derivative (IV), m. 211-12°, [α]D31 -35.4° (MeOH, c 1.3), of 2,6-anhydro-1-nitro-1-desoxyheptitol (V), m. 177-7.5°, [α]D22 8.2° (H₂O, c 3.7). If the formation of IV is carried out at 6-8° for 18 days, there results 3% of IV and 19% of II. IV and V are indifferent to hot Fehling solution and OsO₄. With 0.1 N Pb(OAc)₄ in 98% AcOH, IV consumes 0.96 mol. of oxidant in 68 hrs. and 1.22 mols. in 115 hrs. IV with Ac₂O and AcONa (5 min. at 100°) yields 69% of the diacetate, m. 192-3°, [α]D23 -60° (CHCl₃, c 2). V with Ac₂O containing a trace of H₂SO₄ (2 days at room temperature) yields a tetraacetate, m. 144-5°, [α]D23 4.2° (CHCl₃, c 4.2). With Na metaperiodate, V consumes 2 equivs. of oxidant and yields 1 equivalent of HCO₂H but no HCHO. The 2,6-position is therefore assigned to the anhydro ring. The 2 acetates are not affected by solid NaHCO₃ in boiling C₆H₆, indicating the absence of an Ac group on the C atom adjacent to the CH₂NO₂ group.

IT 867219-64-5, Heptitol, 5,7-benzylidene-2,6-anhydro-1-nitro-1-desoxy-, diacetate (preparation of)

RN 867219-64-5 CAPIUS
CN Heptitol, 5,7-benzylidene-2,6-anhydro-1-nitro-1-desoxy-, diacetate (4CI)
(CA INDEX NAME)



=> file toxicenter
'TOXICENTER' IS NOT A VALID FILE NAME
SESSION CONTINUES IN FILE 'CAPIUS'
Enter "HELP FILE NAMES" at an arrow prompt (=>) for a list of files
that are available. If you have requested multiple files, you can
specify a corrected file name or you can enter "IGNORE" to continue
accessing the remaining file names entered.